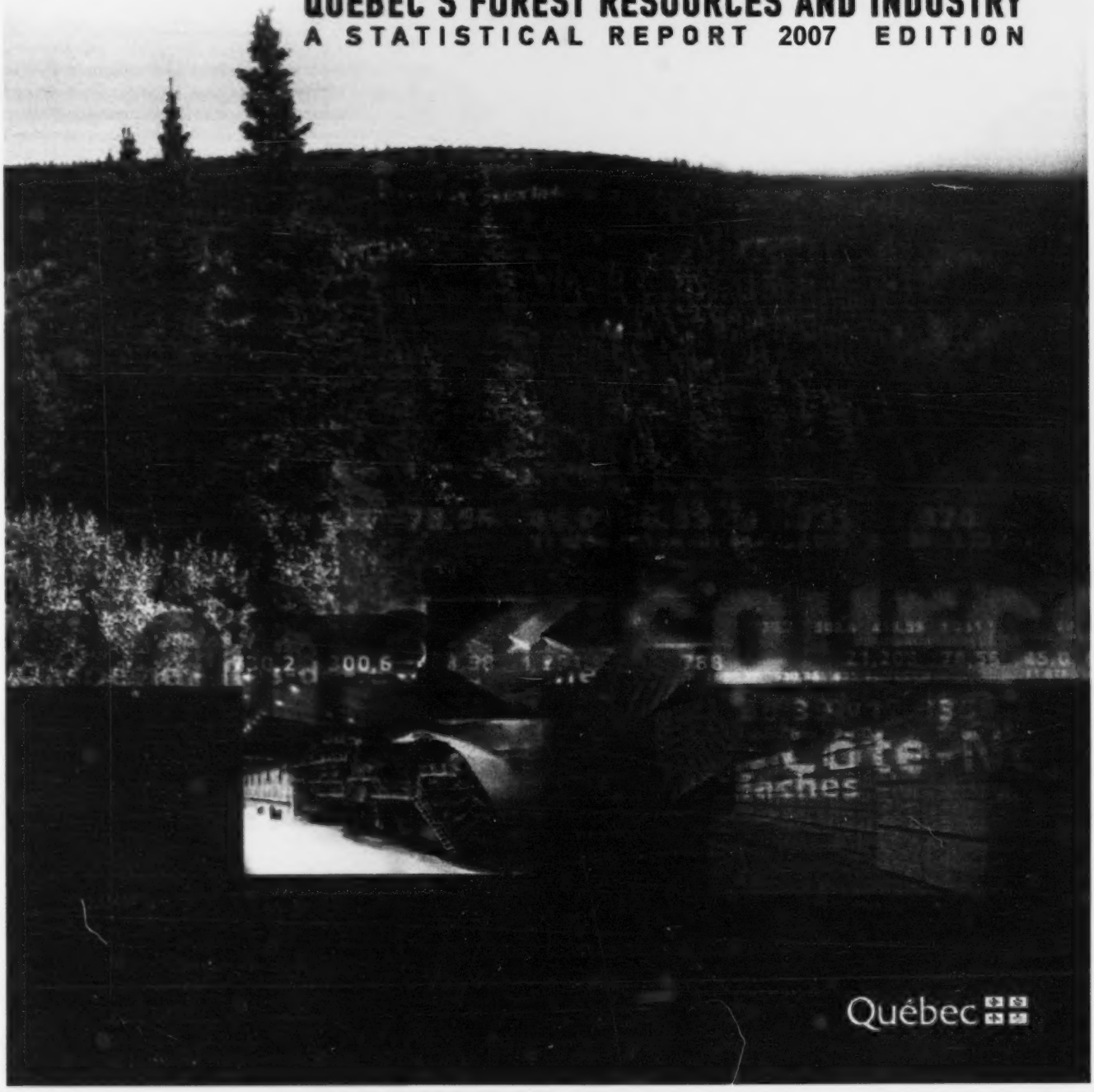
SUMMARY

# QUÉBEC'S FOREST RESOURCES AND INDUSTRY

## A STATISTICAL REPORT 2007 EDITION



Québec

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# QUÉBEC'S FOREST RESOURCES AND INDUSTRY

## A STATISTICAL REPORT
## 2007 EDITION

**DESIGN, RESEARCH AND TEXT**
**Blaise Parent, F.E.**
**working with Claude Fortin, Ad. Tech.**
**Ministère des Ressources naturelles et de la Faune**
Direction du développement de l'industrie
des produits forestiers
880, chemin Sainte-Foy, bureau 7.50
Québec, Québec G1S 4X4
CANADA
Telephone: (418) 627-8644, ext. 4112
Fax: (418) 643-9534

**Note:**
The preparation of this report required the collaboration of all the administrative units within the Secteur des forêts and Forêt Québec. Unless otherwise indicated, the data are provided by the administrative unit of the ministère des Ressources naturelles et de la Faune with responsibility for the sector in question.

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# FOREWORD

In keeping with its mission, the ministère des Ressources naturelles et de la Faune (MRNF) continues to make different tools available to anyone interested in the forests, including this document. As in past years, the 2007 edition of **Québec's Forest Resources and Industry** contains a **succinct statistical report** on Québec's forest sector. However, this year we have made some minor changes to the content. For example, we added a new chapter dealing with the use of non-timber matter, i.e. non-timber forest products (NFTPs), and the survey chapter data are drawn exclusively from the third ten-year forest survey (except for the Magdalen Islands data, which are drawn from the second survey).

The full version of **Québec's Forest Resources and Industry** is available in French only, in **PDF** and **Excel** formats on the MRNF's website at : http://www.mrnfp.gouv.qc.ca/forets/connaissances/connaissances-statistiques.jsp [1]. To facilitate research, French-language and English-language summaries, containing the highlights of each chapter along with the principal maps and tables, are also available on the same website.

We hope you find this year's report as useful as past editions and, as always, we welcome your comments.

1. The full version is updated regularly, and we invite you to obtain the most recent data by consulting it on a regular basis.

## NOTE TO READERS

The full version of this document (in French only) can be obtained from the website of the Ministère des Ressources naturelles et de la Faune (http://www.mrnfp.gouv.qc.ca/) by clicking on the **Forêts, Connaissances forestières et environnementales** and **Les Statistiques forestières** tabs, and then selecting **complète** or **résumée**. In the Excel version, the tabs appearing at the bottom of the screen provide access to the various sheets.

Readers wishing to use the data contained in this publication should bear in mind the changes made to some of the tables illustrating statistical trends. An attempt to compare this year's tables with those of previous years may be difficult and lead only to confusion. In the Excel version, some data may appear to be cut off, due to on-screen column widths. To remedy this problem, use the PDF version or simply print the file instead of consulting it on screen.

For further information, please contact the author, Blaise Parent, at (418) 627-8644, extension 4112.

## IMPORTANT NOTES

Each table, chart and map has been assigned a reference code, which is indicated in the upper right-hand corner. The first two figures of the code correspond to the chapter, the next two to the section and the last two to illustration. For example, code **02.01.03** designates the third illustration of the first section of chapter 2.

The letter (g) added in parentheses at the end of the code 05.01.10 (g) signifies that this page contains the source data for the graphic 05.01.10. As well, the number (2) added in parentheses at the end of the code 12.01.01 (2) indicates that this page contains the data from the preceding table, 12.01.01, including data on the furniture and/or printing industry.

## Symbols Used in the Tables and Diagrams

.. : data not available
... : data not shown
p : provisional data
r : revised data
e : estimated data
x : confidential data
- : none or zero
— : small cap data

## Symbols used

TSFMAs : Timber supply and forest management agreements
FMAs : Forest management agreements
FMCs : Forest management contracts
cm : centimetre
$cm^3$ : cubic centimetre
SIC : Standard Industrial Classification for companies and industries (1980 structure) Statistics Canada
$dm^3$ : cubic decimetre
€ : euro
G : billion
ha : hectare
hl : hectolitre
kg : kilogram
km : kilometre
$km^2$ : square kilometre
L : litre
lb : pound
m : metre
$m^2$ : square metre
$m^3$ : cubic metre
M : million
no. : number
n.e.s. : not elsewhere specified
sq.ft. : square foot
bd ft: board foot
" : inch
NAICS : North American Industry Classification System (Statistics Canada's new 2000 structure)
FSPL : fir, spruce, jack pine, larch
t : ton
mt : metric ton
BDMT: bone-dry metric ton
ngrv : nominal gross raw volume
% : percent
$ : dollar
£ : pound sterling
¥ : yen

## Conversion factors

1 cord of wood = 85 solid cubic feet = 2.41 cubic metres
1 cunit = 100 solid cubic feet = 2.831 cubic metres
1 board foot (bd ft) = a piece of wood 1 inch thick by 1 foot wide by 1 foot long
1 000 board feet (bd ft) = 2.36 cubic metres (net value)
1 cubic metre = 423.7 bd ft = 35.3 cubic feet = 0.353 cunits = 1.5 stacked cubic metres
1 metric ton (long ton) = 1 000 kilograms = 2 205 pounds
1 imperial ton (short ton) = 2 000 pounds
1 square kilometre = 100 hectares = 0.386 square miles
1 hectare = 2.47 acres

# GLOSSARY OF THE MAIN ECONOMIC TERMS USED IN THE TEXT

## Establishment

The smallest operating unit, generally a mill or factory, able to provide data on its inputs, outputs and activities for calculation of added value.

## Total jobs

Positions related to production or to non-manufacturing activities in an establishment (cafeteria, head office, administration or sales). Also includes jobs generated by new construction, repairs or major alterations. Ownership and active partnership positions, which are not considered as salaried positions, are not included in the total jobs figure.

## Total salaries and wages

Amounts allocated for compensation of all the salaried and non-salaried employees of an organization.

## Value of shipments and other income

Value of shipments of company-specific products plus income obtained from non-manufacturing activities such as the sale of goods purchased and resold without processing, the book value of construction and capital work carried out by the establishment's personnel, for its own use, the cafeteria, etc.

## Value added to total activity

Value added in the manufacturing activity, plus added value from non-manufacturing activities. This latter figure is obtained by subtracting from gross non-manufacturing production all purchases of goods for resale without processing (taking into account the net stocks variable for those goods), purchases of materials and supplies used in new construction or the production of machinery and tools for use by the establishment, and office supplies purchased and used by the establishment in a non-manufacturing activity.

## Capital Expenditures

Capital expenditures include the cost of acquiring, constructing and installing plant, materials and sustainable tools, whether for replacement of rental.

## Maintenance and repairs

Amounts paid to maintain works, materials and tools in good condition. They are not considered to be capital expenditures and are indicated separately.

# GLOSSARY OF THE MAIN ECONOMIC TERMS USED IN THE TEXT (cont'd)

## Constant dollars

Dollars in a reference year used as a basis for converting dollars from other years, to eliminate the impact of fluctuations in purchasing power. The conversion is made using a price index.

## Balance of trade

The difference between the monetary value of exports and imports of merchandise, goods and services. If a country exports more than it imports, its balance of trade is positive. If it imports more than it exports, its balance of trade is negative.

## National exports

Products grown, extracted or manufactured in Canada and sold to other countries, including products from foreign sources that are processed in Canada.

## Shipment

Shipment of merchandise (goods) to a domestic or foreign destination.

## Imports

All merchandise introduced into a country, whether for immediate consumption or storage.

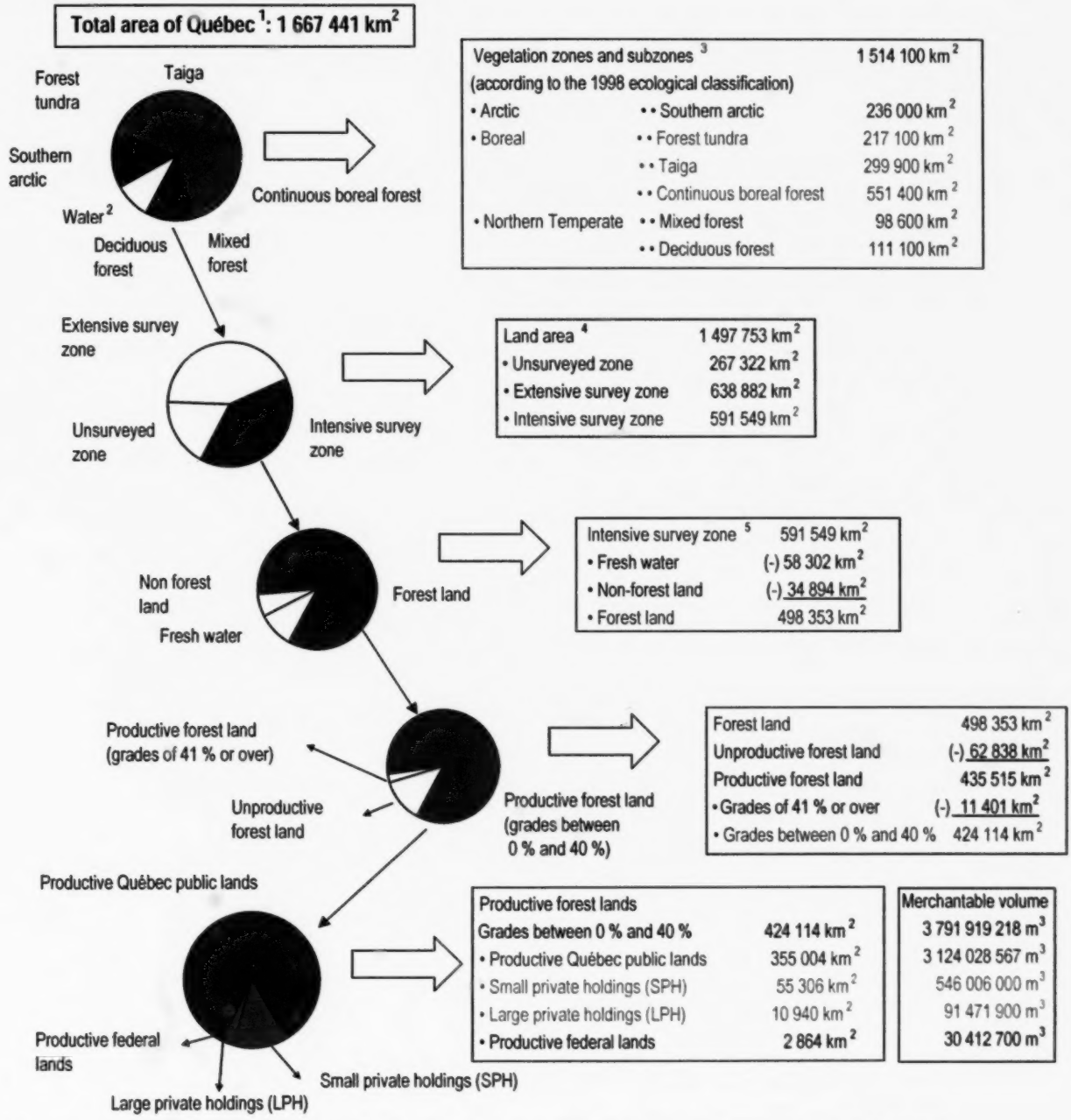
## Selling price index

An index showing variations in the general rate of inflation or price variations in a given economic sector, compared with a reference year to which a value of 100 is assigned.

## Gross domestic product (GDP)

The value of all final goods and services produced in a given period within the geographical boundaries of a country or territory.

## Summary




| Vegetation zones and subzones [3] (according to the 1998 ecological classification) | | 1 514 100 km² |
|---|---|---|
| • Arctic | • • Southern arctic | 236 000 km² |
| • Boreal | • • Forest tundra | 217 100 km² |
| | • • Taiga | 299 900 km² |
| | • • Continuous boreal forest | 551 400 km² |
| • Northern Temperate | • • Mixed forest | 98 600 km² |
| | • • Deciduous forest | 111 100 km² |

| Land area [4] | 1 497 753 km² |
|---|---|
| • Unsurveyed zone | 267 322 km² |
| • Extensive survey zone | 638 882 km² |
| • Intensive survey zone | 591 549 km² |

| Intensive survey zone [5] | 591 549 km² |
|---|---|
| • Fresh water | (-) 58 302 km² |
| • Non-forest land | (-) 34 894 km² |
| • Forest land | 498 353 km² |

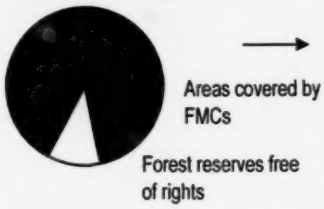
| Forest land | 498 353 km² |
|---|---|
| Unproductive forest land | (-) 62 838 km² |
| Productive forest land | 435 515 km² |
| • Grades of 41 % or over | (-) 11 401 km² |
| • Grades between 0 % and 40 % | 424 114 km² |

| Productive forest lands | | Merchantable volume |
|---|---|---|
| Grades between 0 % and 40 % | 424 114 km² | 3 791 919 218 m³ |
| • Productive Québec public lands | 355 004 km² | 3 124 028 567 m³ |
| • Small private holdings (SPH) | 55 306 km² | 546 006 000 m³ |
| • Large private holdings (LPH) | 10 940 km² | 91 471 900 m³ |
| • Productive federal lands | 2 864 km² | 30 412 700 m³ |

1. Area obtained from a compilation of Québec border data to a scale 1:20 000, calculated using the Modified Transverse Mercator (MTM) system and the NAD83 geodesic reference system. Excludes Labrador, in accordance with the 1927 (non-definitive) boundary.
2. Includes the waters of the St. Lawrence River downstream of the eastern point of Orleans Island, the Gulf of St. Lawrence up to the 1964 boundary with the Maritime provinces; also includes James Bay, Hudson Bay, Ungava Bay and Hudson Strait (153 313 km²).
3. The limits of the bioclimatic domains have been revised by the Comité sur la carte des régions écologiques. The committee also established the new ecological land classification system in 1998 (includes inland waters but excludes the waters of the St. Lawrence River downstream of the eastern point of Orleans Island). The figures have been rounded off, possibly creating minor errors in the totals.
4. Updated September 2004 : The original territorial data are drawn from the third ten-year forest survey (except the Magdalen Islands, for which data are drawn from the second forest survey). This area also includes inland waters but excludes the waters of the St. Lawrence River.
5. Lands whose forests can be developed over 120 years, in keeping with the principle of sustained yield.

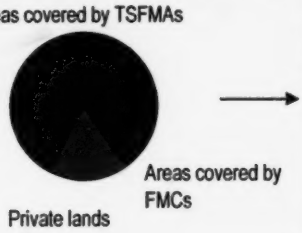
## Summary (cont'd)

### Distribution of productive Québec public lands




| Productive Québec public lands (grades between 0 % and 40 %) | |
|---|---|
| • Areas covered by timber supply and forest management agreements (TSFMAs) and forest management agreements (FMAs) (March 31, 2006) | 298 918 km$^2$ |
| • Areas covered by forest management contracts (FMCs) (March 31, 2006) | 16 711 km$^2$ |
| • Forest reserves free of rights and areas where forest production is prohibited (RSFM [1], parks, etc.) | 39 375 km$^2$ |
| | 355 004 km$^2$ |

### Surface areas taken into account in calculating the allowable annual cut (March 31, 2006)




| Québec public lands on which rights have been granted | |
|---|---|
| • TSFMAs and FMAs [2] | 298 918 km$^2$ |
| • FMCs | 16 711 km$^2$ |
| Productive private lands taken into account in calculating allowable annual cut (grades between 0 % and 40 %) SPH [2] : 55 306 km$^2$, LPH [2] : 10 940 km$^2$ | 66 246 km$^2$ |

### Allowable annual cut (March 31, 2006)

| | |
|---|---|
| | 47 168 165 m$^3$ |
| Allowable annual cut - Québec public forests (common areas) | 35 199 415 m$^3$ |
| • Fir, spruce, jack pine, larch | 23 081 536 m$^3$ |
| • Other sofwoods | 1 262 190 m$^3$ |
| • Poplars | 3 494 647 m$^3$ |
| • Other hardwoods | 7 361 042 m$^3$ |
| Allowable annual cut - private forests (large and small private holdings) [3] | 11 968 750 m$^3$ |
| • Fir, spruce, jack pine, larch | 4 639 650 m$^3$ |
| • Other sofwoods | 917 300 m$^3$ |
| • Poplars | 2 311 600 m$^3$ |
| • Other hardwoods | 4 100 200 m$^3$ |

### Volumes allocated by TSFMAs and FMAs in public forests (March 31, 2006)

| | |
|---|---|
| | 36 055 655 m$^3$ |
| • Fir, spruce, jack pine, larch | 28 047 606 m$^3$ |
| • Other sofwoods | 879 674 m$^3$ |
| • Poplars | 3 000 500 m$^3$ |
| • Other hardwoods | 4 127 875 m$^3$ |

1. RSFM : Regulation respecting standards of forest management for forests in the domain of the State.
2. SPH : Small private holdings.
   LPH : Large private holdings.
3. Current volumes not included.

## Summary (cont'd)

**Volumes allocated by FMCs in public forests (March 31, 2006)** — 853 636 $m^3$

| | |
|---|---|
| • Fir, spruce, jack pine, larch | 544 487 $m^3$ |
| • Other sofwoods | 19 944 $m^3$ |
| • Poplars | 203 262 $m^3$ |
| • Other hardwoods | 85 943 $m^3$ |

**Timber harvested - volume (2005-2006)** — 38 616 600 $m^3$

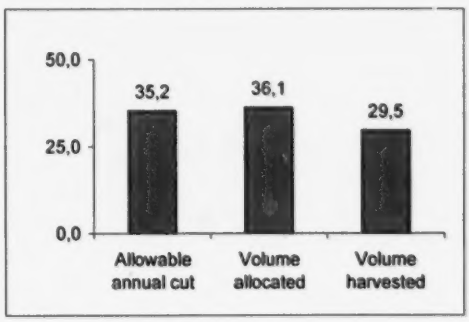
Public forests

Private forests

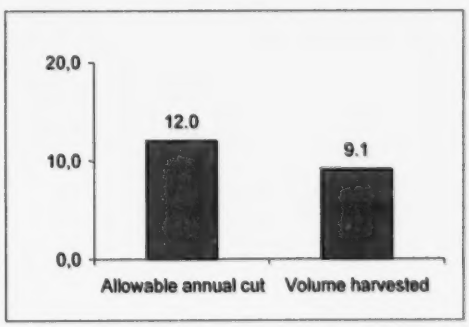
| | |
|---|---|
| Public forests | 29 537 100 $m^3$ |
| • Fir, spruce, jack pine, larch | 24 208 000 $m^3$ |
| • Other softwood | 362 600 $m^3$ |
| • Poplars | 2 347 400 $m^3$ |
| • Other hardwoods | 2 619 100 $m^3$ |
| Private forests [1] | 9 079 500 $m^3$ |
| • Fir, spruce, jack pine, larch | 3 802 800 $m^3$ |
| • Other sofwood | 509 700 $m^3$ |
| • Poplars | 1 676 300 $m^3$ |
| • Other hardwood | 3 090 700 $m^3$ |

1. Estimates.

**Public forests (allowable annual cut, volume allocated, volume harvested) (2005-2006)**




**Private forests (allowable annual cut, volume harvested) (2005-2006)**



# Summary (cont'd)

## Forest protection

| | | 2005 | 2006 |
|---|---|---|---|
| **Area affected (ha)** | | **823 401** | **174 746** |
| Spruce budworm | | 43 270 | 50 500 |
| Forest fires | Intensive protection zone | 366 671 | 13 724 |
| | Limited forest protection | 413 460 | 110 522 |

## Silvicultural treatments planned and carried out

| | 2004-2005 and 2005-2006 | 2004-2005 | 2005-2006 |
|---|---|---|---|
| | Planned (ha) | Carried out (ha) | Carried out (ha) |
| **Public forests** | **670 905** | **466 338r** | **546 458p** |
| Site preparation | 59 021 | 41 776r | 52 183p |
| Planting and seeding | 49 192 | 52 478r (74 M seedlings) | 58 280p (98 M seedlings) |
| Non-commercial treatments | 167 137 | 102 248r | 110 639p |
| Commercial treatments | 395 555 | 269 836r | 325 356p |
| **Private forests** | **67 430** | **49 154** | **49 035p** |
| Site preparation | ... | 8 173 | 8 185p |
| Planting and seeding | 12 591 | 10 082 (22 M seedlings) | 9 235p (20 M seedlings) |
| Non-commercial treatments | 7 618 | 19 043 | 18 197p |
| Commercial treatments | 47 221 | 11 856 | 13 418p |

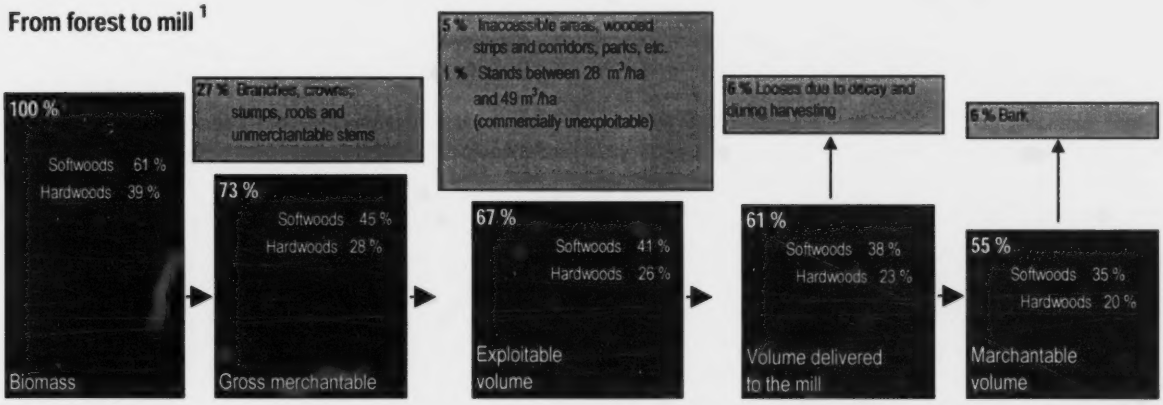
## Network of permanent roads (2005-2006e)

**Total length : 16 700 km (590 bridges)**

## Experimental, teaching and research forests (2006)

**Total area : 63 000 ha**

## From forest to mill [1]




1 : Updated March 31, 2006.

## Timber consumption by primary processing plants

| | | 2004r | 2005 |
|---|---|---|---|
| **Total Consumption (m³)** | | **72 264 123** | **70 686 470** |
| **Consumption by Species (m³)** | Fir, spruce, jack pine, larch | 55 744 463 | 54 277 929 |
| | Other softwoods | 2 206 657 | 2 232 918 |
| | Poplars | 5 357 288 | 5 150 110 |
| | Other hardwoods | 8 955 715 | 9 025 513 |
| **Consumption by Product (m³)** | Roundwood | 44 663 138 | 43 798 586 |
| | Chips | 19 039 065 | 18 918 689 |
| | Sawdust, shavings and wood residues | 8 561 920 | 7 969 195 |
| **Consumption by Source (m³)** | Public forests | 31 282 929 | 31 012 636 |
| | Private forests | 7 281 402 | 7 267 047 |
| | Exchanges between mills | 25 967 952 | 24 081 081 |
| | Outside Québec | 7 731 840 | 8 325 706 |

## Summary (cont'd)

### The forest sector in Québec's economy (2004)

| | Total jobs (no.) | Total salaries and wages ($, 000s) | Value of shipments and other revenue ($, 000s) | Value added to total activity [1] ($, 000s) | Capital expenditures and repairs ($, 000s) |
|---|---|---|---|---|---|
| Forestry and logging (NAICS 113) | 12 747 | 423 391 | 2 889 756 | 1 302 709 | 154 000 |
| Wood product manufacturing (NAICS 321) | 37 473 | 1 412 299 | 9 758 118 | 4 091 534 | 712 100 |
| Paper manufacturing (NAICS 322) | 27 658 | 1 559 063 | 10 764 347 | 4 317 907 | 784 800 |
| **Total (forest sector)** | 77 878 | 3 394 753 | 23 412 221 | 9 712 150 | 1 650 900 |

1. Including purchase of services.

### Logging industry (2005)

| | |
|---|---|
| Number of primary processing plants, including 410 sawmills | 499 |
| Number of pulp, paper and paperboard mills, 38 of which are included under primary processing plants | 65 |

### Wood processing industry establishments by group

| | |
|---|---|
| Wood product manufacturing (NAICS 321) | 718 |
| Paper manufacturing (NAICS 322) | 200 |
| **Total** | 918 |

### Forest product production

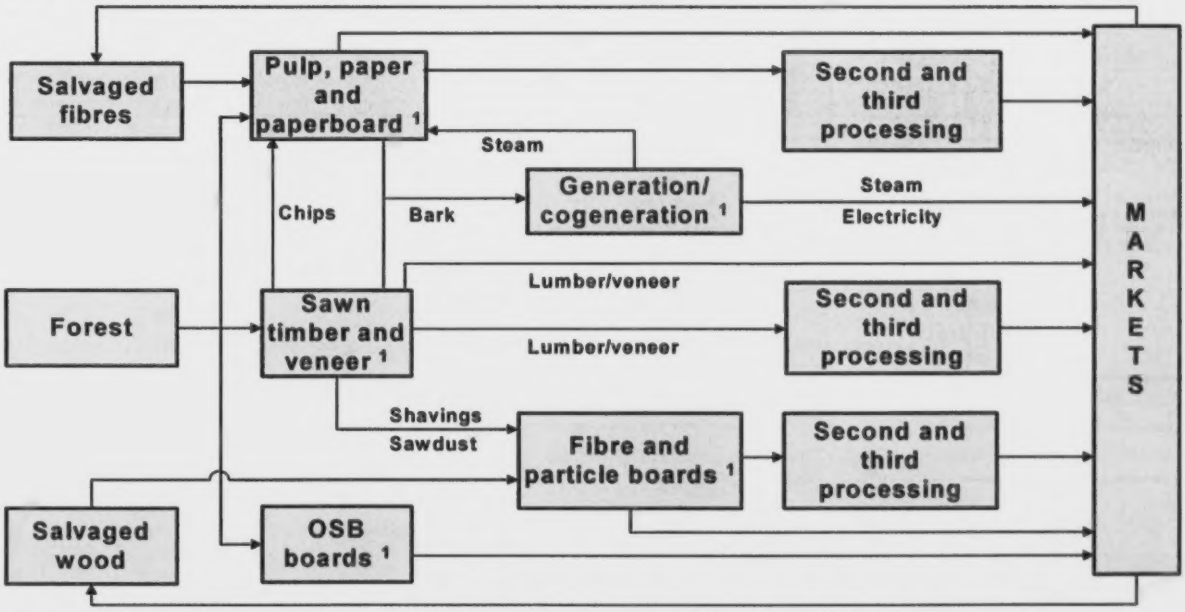
| | 2004 | 2005 |
|---|---|---|
| Lumber ($m^3$, 000s) | 20 526 | 18 607 |
| Joint sawmill production (BDMT, 000s) | 12 470 | 12 065 |
| Chips | 7 449 | 7 237 |
| Sawdust and shavings | 2 120 | 2 079 |
| Bark | 2 901 | 2 750 |
| Pulp and paper production (BDMT, 000s) | 9 798 | 9 679 |
| Newsprint | 3 488 | 3 421 |
| Paperboard and paper other than newsprint | 4 895 | 4 871 |
| Market pulp | 1 415 | 1 387 |

### Québec's balance of trade [1] in the forest products sector ($, million) [2]

| | 2004 | 2005 | 2006 |
|---|---|---|---|
| Wood, charcoal and wooden products | 3 693 | 3 296 | 2 658 |
| Pulp, paper and paperboard | 6 066 | 6 227 | 6 318 |
| **Total** | 9 758 | 9 522 | 8 977 |

1. Balance of trade of commerical goods with international destinations.
2. Product designation according to the World Custom Organization's harmonized Commodity Description and Coding System

### Integration of the forest products industry




1. Primary processing.

## Summary (cont'd)

### The forest sector in Québec's economy (2004) (including furnitures and printing)

| | Total jobs (no.) | Total salaries and wages ($, 000s) | Value of shipments and other revenue ($, 000s) | Value added to total activity [1] ($, 000s) | Capital expenditures and repairs ($, 000s) |
|---|---|---|---|---|---|
| Forestry and logging (NAICS 113) | 12 747 | 423 391 | 2 889 756 | 913 018 | 140 200 |
| Wood product manufacturing (NAICS 321) | 37 473 | 1 412 299 | 9 758 118 | 3 304 631 | 567 200 |
| Furniture and related product manufacturing (NAICS 337) | 29 811 | 974 926 | 3 846 467 | 2 157 188 | 88 600 |
| Paper manufacturing (NAICS 322) | 27 658 | 1 559 063 | 10 764 347 | 4 190 229 | 1 887 400 |
| Printing and related support activities (NAICS 323) | 18 438 | 809 135 | 3 132 757 | 1 850 219 | 151 900 |
| Total (forest sector) | 126 127 | 5 178 814 | 30 391 445 | 12 415 285 | 2 845 300 |
| Overall manufacturing activity in Québec | 475 440 | 20 471 465 | 142 675 148 | 64 039 341 | 7 790 300 |

1. Including purchase of services.

### Logging industry (2005)

| | |
|---|---|
| Number of primary processing plants, including 410 sawmills | 499 |
| Number of pulp, paper and paperboard mills, 38 of which are included under primary processing plants | 65 |

### Wood processing industry establishments by group

| | |
|---|---|
| Wood product manufacturing (NAICS 321) | 718 |
| Furniture and related product manufacturing (NAICS 337) | 650 |
| Paper manufacturing (NAICS 322) | 200 |
| Printing and related support activities (NAICS 323) | 447 |

### Forest product production (including furniture and printing)

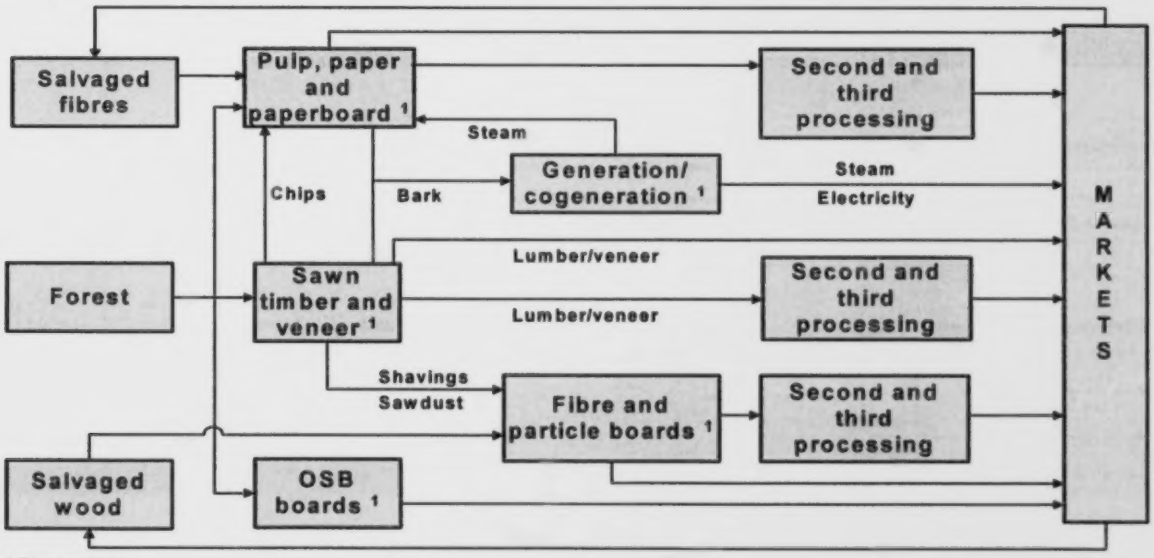
| | 2004 | 2005 |
|---|---|---|
| Lumber ($m^3$, 000s) | 20 526 | 18 607 |
| Joint sawmill production (BDMT, 000s) | 12 470 | 12 065 |
| Chips | 7 449 | 7 237 |
| Sawdust and shavings | 2 120 | 2 079 |
| Bark | 2 901 | 2 750 |
| Pulp and paper production (BDMT, 000s) | 9 798 | 9 679 |
| Newsprint | 3 488 | 3 421 |
| Paperboard and paper other than newsprint | 4 895 | 4 871 |
| Market pulp | 1 415 | 1 387 |
| Furniture and related product production ($, 000s) | 4 068 | 4 197 |
| Printing and related support activities industry production ($, 000s) | 3 463 | 3 454 |

### Québec's balance of trade [1] in the forest products sector (including furniture and printing) ($, million) [2]

| | 2004 | 2005 | 2006 |
|---|---|---|---|
| Wood product, furniture and related product manufacturing | 5 120 | 4 455 | 3 538 |
| Pulp and paper, paper and paperboard, converted paper product manufacturing and printing and related support activities mills | 6 534 | 6 665 | 6 659 |
| Total (forest products sector) | 11 654 | 11 120 | 10 197 |

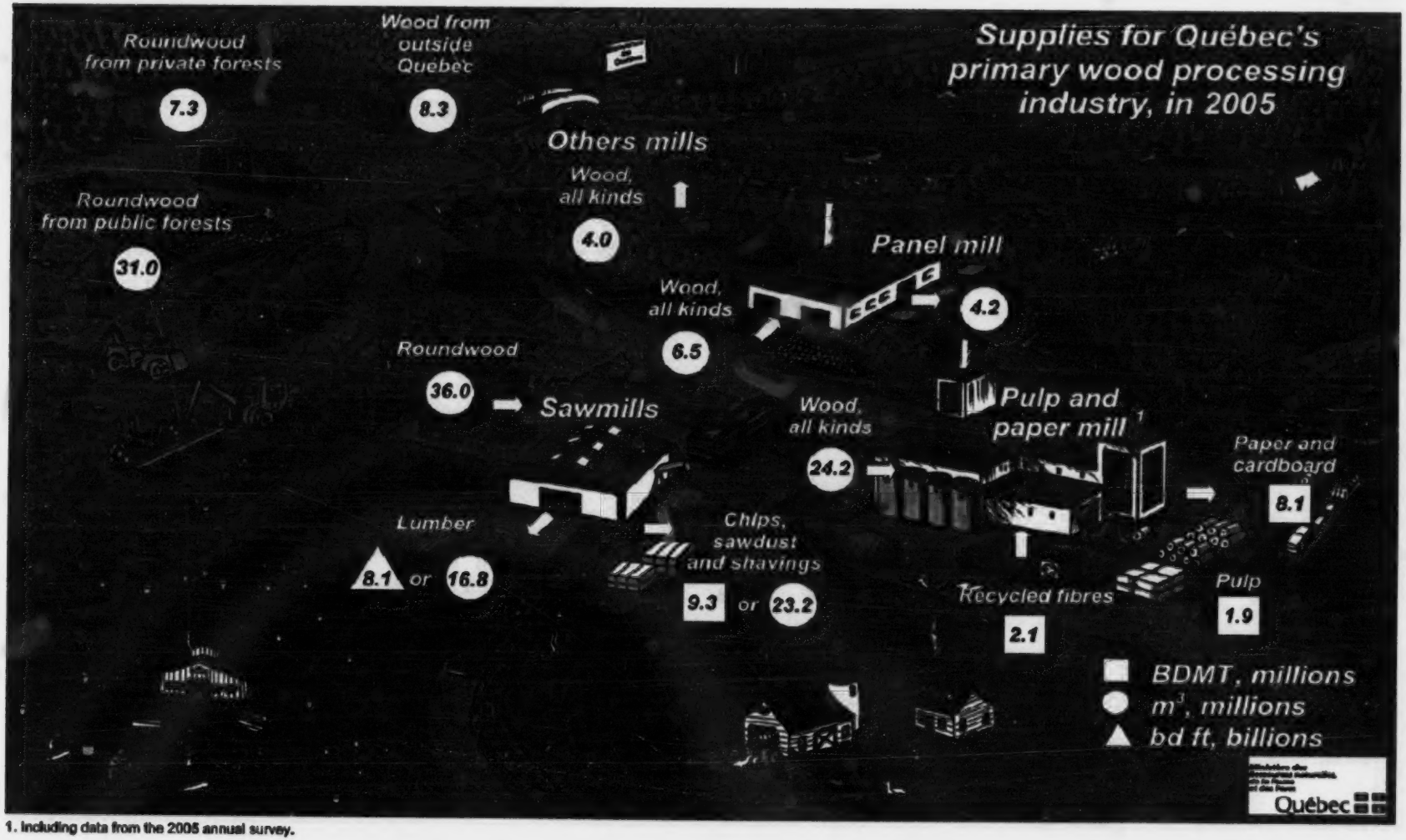
1. Balance of trade of commerical goods with international destinations.
2. According to the North American Industry Classification System (NAICS).

### Integration of the forest products industry



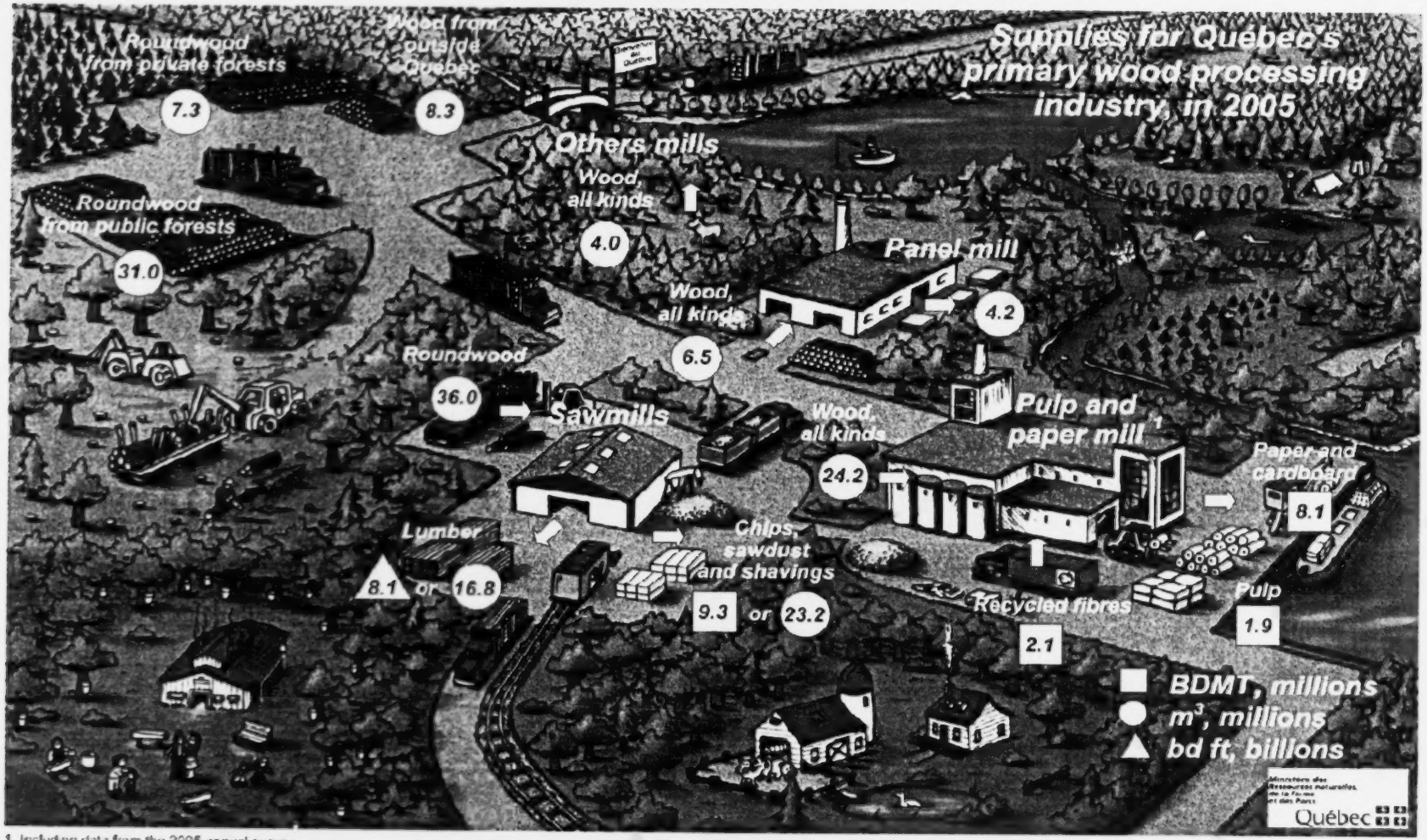

1. Primary processing.

**Supplies for Québec's primary wood processing industry in 2005**




1. Including data from the 2005 annual survey.

Supplies for Québec's primary wood processing industry in 2005




1. Including data from the 2005 annual survey.

## Supplies for Québec's primary wood processing industry in 2005

| Supplies by source ($m^3$, million) | |
|---|---|
| Public forests | 31,0 |
| Private forests | 7,3 |
| Outside Québec | 8,3 |
| **Total** | **46,6** |

| Mills consumption ($m^3$, million) | |
|---|---|
| Panel | 6,5 |
| Sawmills | 36,0 |
| Pulp and paper | 24,2 |
| Other mills | 4,0 |
| **Total** | **70,7** |

| Recycled fibres consumption (BDMT, million) [1] | |
|---|---|
| Pulp and paper | 2,1 |

| Sawmills Production | |
|---|---|
| Chips, sawdust and shavings | 9,6 (BDMT, million) |
| | 23,2 (m3, million) |
| Lumber | 8,1 (bd ft, billion) |
| | 16,8 (m3, million) |

| Pulp and paper mill production (BDMT, million) [1] | |
|---|---|
| Paper and paperboard | 8,1 |
| Market pulp | 1,9 |

| Panel mills production ($m^3$, million) | |
|---|---|
| Panel | 4,2 |

1. Including data from the 2006 annual survey.

# QUÉBEC'S FOREST RESOURCES AND INDUSTRY
# TABLE OF CONTENTS


**Foreword**

**Note to readers and important notes**

**Symbols used in the Tables and Diagrams, symbols used and conversion factors**

**Glossary of main economic terms**

**Summary**

**Québec's primary wood processing industry supplies**

1. **Geographical distribution of Québec's forests**
   - Highlights
   - Vegetation zones and subzones
   - Public land use planning
   - Administrative divisions in Québec's public forests
   - Types of ownership and survey zones
   - Private forests

2. **Intensive survey zone**
   - Highlights
   - Area of productive forests (grades between 0 % and 40 %) and available gross merchantable volume

3. **Forest protection**
   - Highlights
   - Insects and diseases
   - Forest fires

4. **Sustainable development of Québec's forests**
   - Highlights

5. **Forest management**
   - Highlights
   - Allowable annual cut
   - Harvest
   - Forest dues
   - Seedling production
   - Summary of silvicultural treatments carried out

6. **Forest use for educational, recreational purposes, research and experimental**
   - Highlights

7. **Non-timber Use**
   **Non-timber forest products (NTFPs)**
   - Highlights

8. **Logging**
   - Highlights

9. **Timber use**
   - Highlights
   - Trade with markets outside Québec in 2004 and 2005

10. **Wood industries**
    - Highlights
    - Overview
    - The sawmill industry

11. **The pulp and paper industry**
    - Highlights
    - Production capacity
    - Production
    - Environment

12. **The forest sector in Québec's economy**
    - Highlights
    - Economic and financial indicators

# 1 Geographical distribution of Québec's forests
## Highlights

01 00 01

### Total area of Québec

| | (km²) |
|---|---|
| Total area | 1 667 441r |
| *Land area* [1] | 1 497 753 |
| Vegetation zones (according to the 1998 ecological classification) [2] : | |
| • Arctic | 236 000r |
| • Boréal | 1 068 400r |
| • Northern temperate | 209 700r |

1. Updated in September 2004 : The original territorial data are drawn from the third ten-year forest survey (except for the Magdalen Islands data, which are still drawn from the second survey) This area also includes inland waters but excludes the waters of the St. Lawrence River
2. The bioclimatic domain boundaries have been reviewed by the Comité sur la carte des régions écologiques, which also established the new ecological classification system in 1998 (including inland water but excluding the waters of the St. Lawrence River downstream of the eastern point of the Orleans island)

### Types of ownership

| | (km²) |
|---|---|
| Public lands (Québec) | 1 372 021 |
| Private lands | 116 398 |
| Federal lands | 9 334 |

### Public land use planning

| | | (km²) |
|---|---|---|
| Public lands [1] | | 1 373 490 |
| • Forest production prohibited | | 65 552 |
| • Forest production allowed | | 86 830 |
| • Forest production has priority : | | 367 856 |
| - Forest and leisure area | 6 650 | |
| - Forest production area | 361 206 | |
| • Other resource production [2] | | 853 252 |

1. The areas were established from data gathered in 1997, and differ slightly from the areas measured during forest surveys. In particular, they have no been adjusted to reflect the latest modifications, including those resulting from sales of land, for example. Harmonization should be completed shortly.
2. Area with mining sites, energy development sites, etc., north of the common area boundary.

### Survey zones

| | (km²) |
|---|---|
| Intensive survey zone | 591 549 |
| Extensive survey zone | 638 882 |
| Unsurveyed zone | 267 322 |

### Administration of public forests, March 31, 2006

| | (no.) |
|---|---|
| Administrative régions | 17 |
| Common areas | 114 |
| Timber supply and forest management agreements (TSFMAs) | 229 |
| Forest management agreements (FMAs) | 5 |
| Forest management contracts (FMCs) | 89 |

### Management of private forests, March 31, 2006

| | |
|---|---|
| Development agencies (no.) | 17 |
| • Productive area (ha, 000s) | 6 625 |
| • Number of owners | 129 850 |
| • Number of owners in activity | 74 015 |
| Syndicates of wood marketing boards (no.) | 15 |

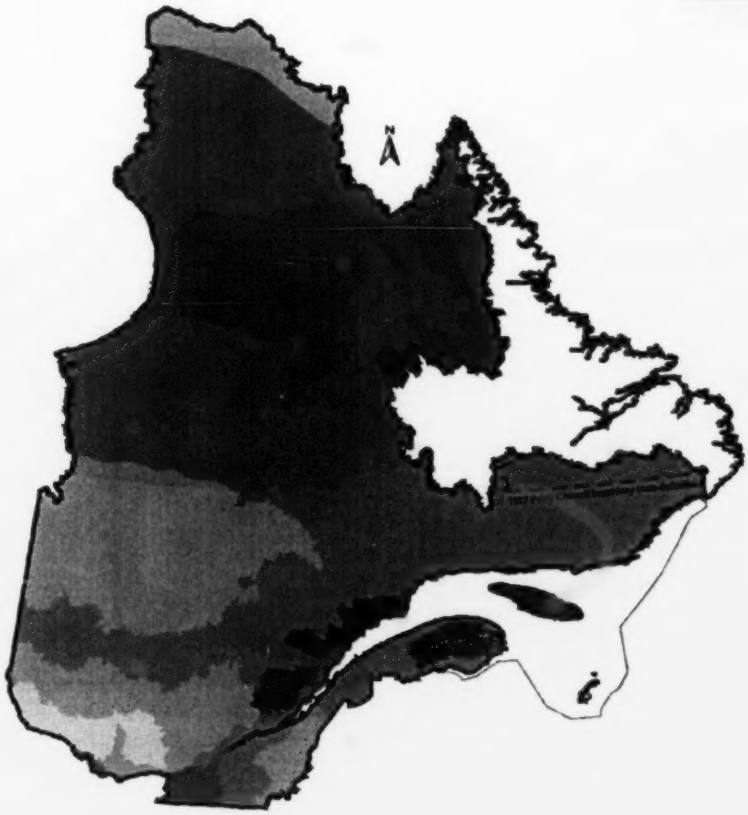
### Forest cooperatives, 2003-2004

| | |
|---|---|
| Forest cooperatives (no.) | 54 |
| Members (no.) | 3 010 |
| Workers (4 weeks or over) | 4 095 |
| Silvicultural work (ha, 000s) | 82 738 |
| Harvest ($m^3$, 000s) | 5 537 |
| Turnover ($, millions) | 320 |

# 1 Geographical distribution of Québec's forest

## Vegetation zones and subzones

01 01 01



**Arctic zone**

Southern arctic subzone
- Herbaceous arctic tundra domain
- Shrub arctic tundra domain

**Boreal zone**

Forest tundra subzone
- Forest tundra domain

Taiga subzone
- Spruce-lichen domain

Continuous boreal forest subzone
- Spruce-moss domain
- Balsam fir-white birch domain

**Northern temperate zone**

Mixed forest subzone
- Balsam fir-yellow birch domain

Hardwood forest subzone
- Sugar maple-yellow birch domain
- Sugar maple-basswood domain
- Sugar maple-bitternut hickory domain

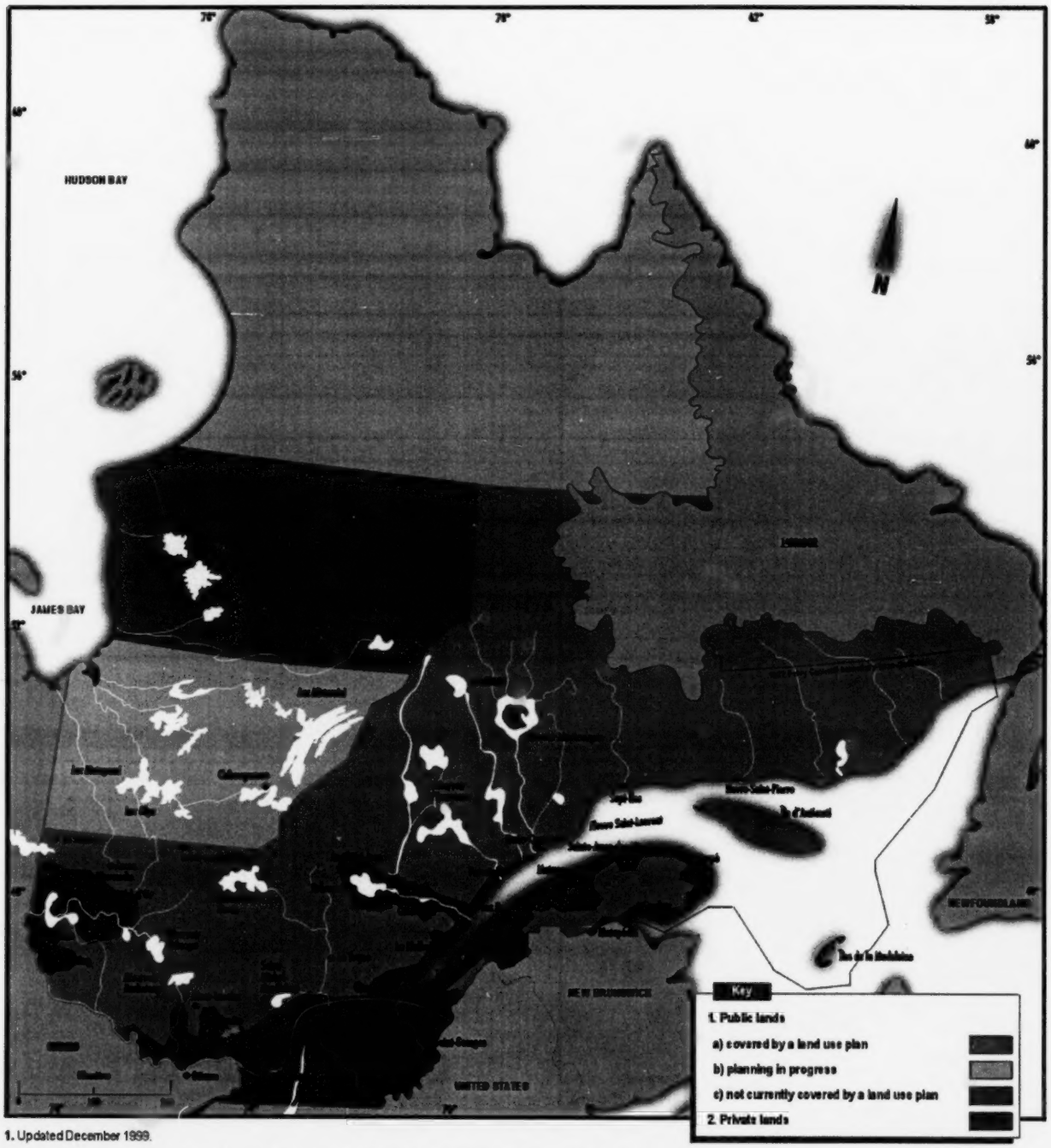
**Source** : Direction des inventaires forestiers, division écologie - productivité.

# 1 Geographical distribution of Québec's forests

## Public land use planning

### Areas subject to the land use planning process [1, 2]

01.03.01




1. Updated December 1999.

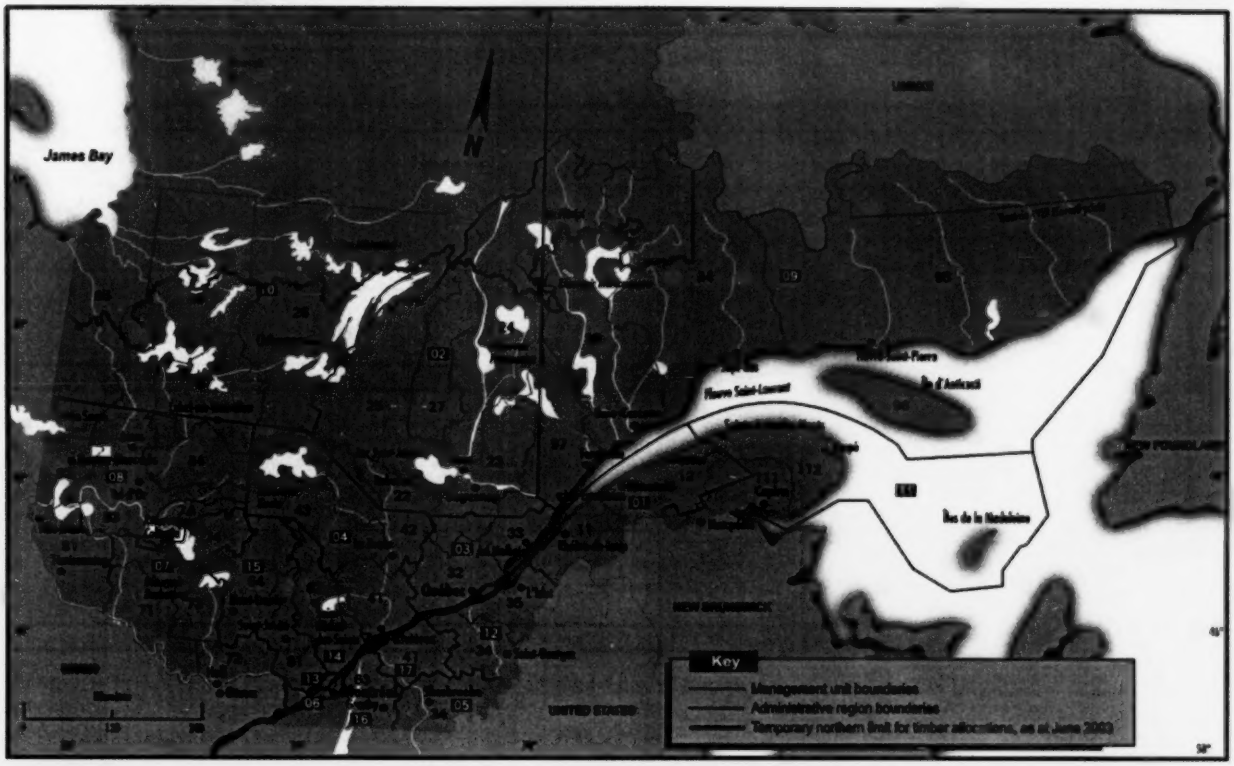
2. In 2005, the government began the development of a new public land use plan for the regions of Saquenay–Lac-St-Jean, Capitale-Nationale, Mauricie, Outaouais, Abitibi-Témiscamingue, Côte-Nord, Gaspésie–Iles-de-la-Madelaine and Laurentides.

**Source :** Direction générale de la gestion du territoire public.

# 1 Geographical distribution of Québec's forests

## Administrative divisions in Québec's public forests [1]

01 05 02




Key

| ADMINISTRATIVE REGIONS | MANAGEMENT UNITS |
|---|---|
| 01 Bas-Saint-Laurent | 11-12 p.[2]-111 p.-112 p. |
| 02 Saguenay—Lac-Saint-Jean | 22-23 p.-24 p.-25-27-33 p.-42 p.-93 p.-97 p. |
| 03 Capitale-Nationale | 23 p.-32-33 p. |
| 04 Mauricie | 26 p.-41 p.-42 p.-43 p. |
| 05 Estrie | 34 p. |
| 06 Montréal | 63 p. |
| 07 Outaouais | 71-72-73-74 p. |
| 08 Abitibi-Témiscamingue | 74 p.-81-82-83-84-85 p.-86 p.-87 p. |
| 09 Côte-Nord | 24 p.-93 p.-94-95-96-97 p. |
| 10 Nord-du-Québec | 26 p.-85 p.-86 p.-87 p. |
| 11 Gaspésie—Îles-de-la-Madeleine | 12 p.-111 p.-112 p. |
| 12 Chaudière-Appalaches | 34 p.-35 |
| 13 Laval | 63 p. |
| 14 Lanaudière | 41 p.-43 p.-62 p.-64 p. |
| 15 Laurentides | 61-62 p.-64 p. |
| 16 Montérégie | 63 p. |
| 17 Centre-du-Québec | 41 p. |

1 Updated January 2005
2 p. : part of.

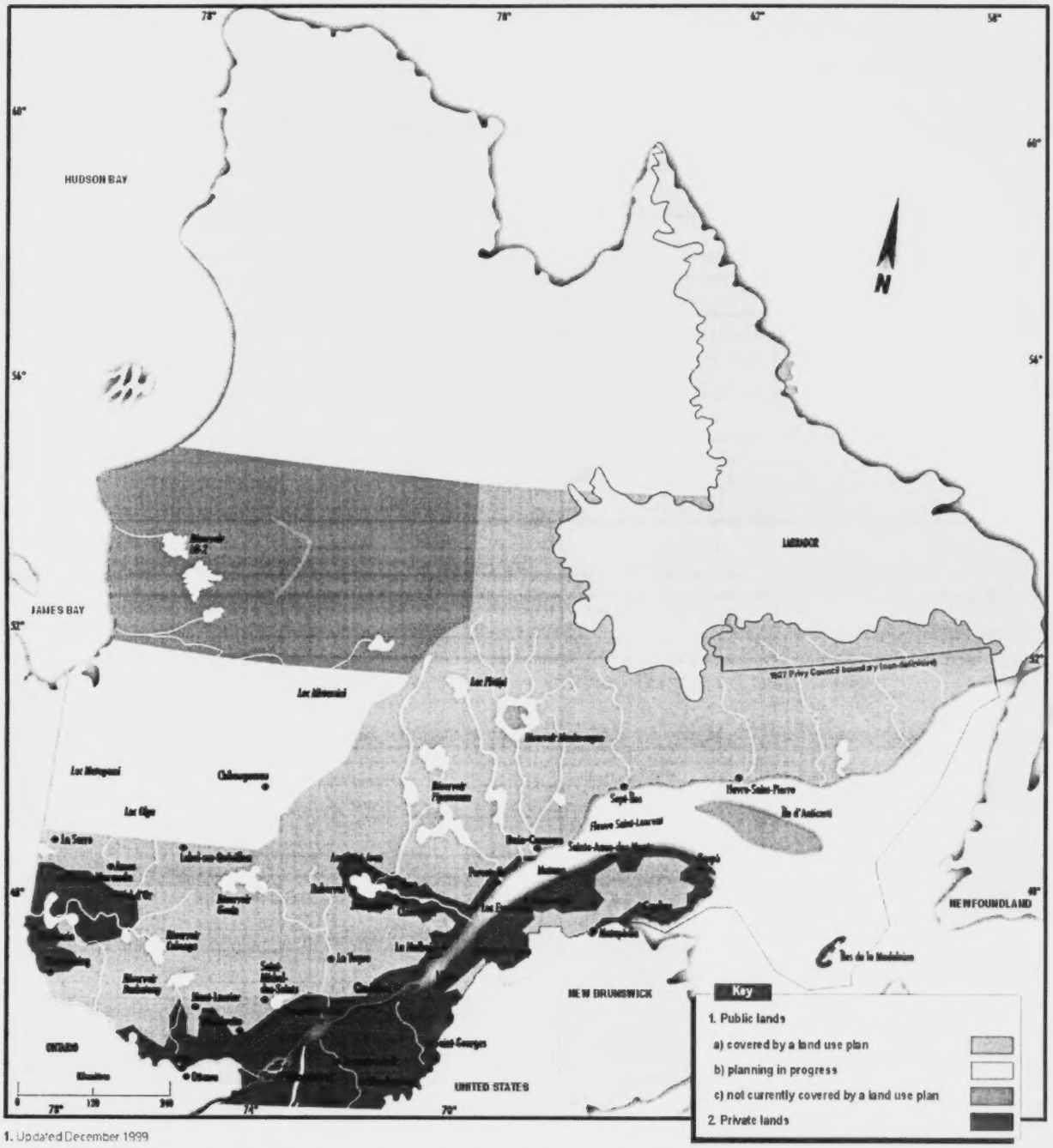
Note : This document provides figures for each of the Québec government's 17 administrative regions. However, for internal management purposes, the ministère des Ressources naturelles et de la Faune considers only 9 administrative regions, subdivided into 37 management units.

# 1 Geographical distribution of Québec's forests

## Public land use planning

### Areas subject to the land use planning process [1, 2]

01.03.01




1. Updated December 1999.

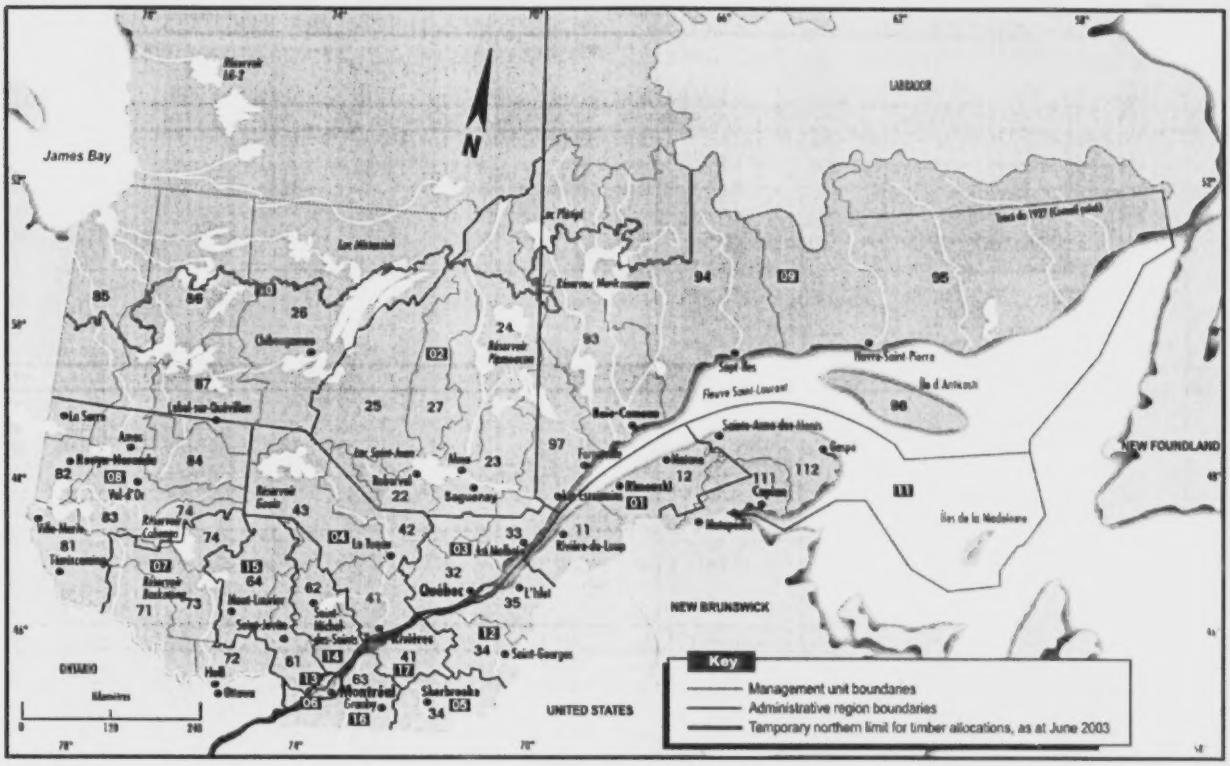
2. In 2005, the government began the development of a new public land use plan for the regions of Saguenay--Lac-St-Jean, Capitale-Nationale, Mauricie, Outaouais, Abitibi-Témiscamingue, Côte-Nord, Gaspésie--Îles-de-la-Madelaine and Laurentides.

**Source** : Direction générale de la gestion du territoire public.

# 1 Geographical distribution of Québec's forests

## Administrative divisions in Québec's public forests [1]

01.05.02




**Key**

| ADMINISTRATIVE REGIONS | MANAGEMENT UNITS |
|---|---|
| 01 Bas-Saint-Laurent | 11-12 p.[2]-111 p.-112 p. |
| 02 Saguenay—Lac-Saint-Jean | 22-23 p.-24 p.-25-27-33 p.-42 p.-93 p.-97 p. |
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1 Updated January 2005
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Note : This document provides figures for each of the Québec government's 17 administrative regions. However, for internal management purposes, the ministère des Ressources naturelles et de la Faune considers only 9 administrative regions, subdivided into 37 management units.

# 1 Geographical distribution of Québec's forest

## Types of ownership and survey zones

### Breakdown of Québec [1] by survey zone and type of ownership [2]

01 06 02

| | Administrative regions | | | | | | | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| | (km²) | | | | | | | | | | | | | | | | | |
| **UNSURVEYED ZONE** | | | | | | | | | | | | | | | | | | |
| Québec public lands | | | | | | | | | | 260 771 | | | | | | | | 260 771 |
| Private lands (Inuit) | | | | | | | | | | 6 551 | | | | | | | | 6 551 |
| Federal lands | | | | | | | | | | | | | | | | | | |
| **Total area** | | | | | | | | | | 267 322 | | | | | | | | 267 322 |
| **EXTENSIVE SURVEY ZONE** [3] | | | | | | | | | | | | | | | | | | |
| Québec public lands | | 9 094 | | | | | | | 153 908 | 472 171 | | | | | | | | 635 173 |
| Forests in the domain of the State [4] | | 9 094 | | | | | | | 153 908 | 472 171 | | | | | | | | 635 173 |
| Other tenures [5] | | | | | | | | | | | | | | | | | | |
| Private lands | | | | | | | | | 30 | 2 116 | | | | | | | | 2 146 |
| Large holdings [6] | | | | | | | | | | 2 116 | | | | | | | | 2 116 |
| Small holdings | | | | | | | | | 30 | | | | | | | | | 30 |
| Federal lands | | | | | | | | | 38 | 1 525 | | | | | | | | 1 563 |
| **Total area** | | 9 094 | | | | | | | 153 976 | 475 812 | | | | | | | | 638 882 |
| **INTENSIVE SURVEY ZONE** [3] | | | | | | | | | | | | | | | | | | |
| Québec public lands | 11 574 | 90 658 | 12 472 | 31 388 | 756 | 93 | 25 669 | 57 393 | 113 286 | 89 976 | 16 190 | 1 603 | | 9 109 | 15 228 | 588 | 95 | 476 077 |
| Forests in the domain of the State | 11 259 | 89 883 | 11 141 | 31 313 | 544 | 93 | 25 358 | 55 075 | 111 515 | 89 822 | 15 384 | 1 474 | | 8 276 | 14 398 | 555 | 81 | 466 171 |
| Other tenures | 315 | 775 | 1 331 | 75 | 212 | | 311 | 2 318 | 1 771 | 153 | 806 | 129 | | 833 | 830 | 33 | 14 | 9 906 |
| Private lands | 11 105 | 6 619 | 6 716 | 7 701 | 9 695 | 514 | 7 904 | 7 188 | 1 928 | 1 089 | 3 995 | 13 649 | 267 | 4 384 | 6 818 | 11 154 | 6 974 | 107 701 |
| Large holdings | 1 126 | 882 | 2 323 | 3 726 | 1 310 | | 489 | 142 | 953 | 862 | 125 | 685 | | 2 | 33 | 33 | 60 | 12 752 |
| Small holdings | 9 979 | 5 737 | 4 393 | 3 975 | 8 385 | 514 | 7 415 | 7 046 | 976 | 226 | 3 870 | 12 964 | 267 | 4 382 | 6 786 | 11 121 | 6 914 | 94 948 |
| Federal lands | 2 | 26 | 610 | 818 | 5 | 15 | 545 | 26 | 3 099 | 1 258 | 289 | 226 | | 8 | 478 | 103 | 263 | 7 771 |
| **Total area** | 22 681 | 97 303 | 19 798 | 39 908 | 10 456 | 622 | 34 118 | 64 607 | 118 314 | 92 322 | 20 474 | 15 478 | 267 | 13 501 | 22 525 | 11 845 | 7 332 | 591 549 |
| **Total (land)** | 22 681 | 106 397 | 19 798 | 39 908 | 10 456 | 622 | 34 118 | 64 607 | 272 290 | 835 456 | 20 474 | 15 478 | 267 | 13 501 | 22 525 | 11 845 | 7 332 | 1 497 753 |

1. Not including areas covered by the waters of the St. Lawrence River and Gulf, James Bay, Hudson Bay, Ungava Bay and the Hudson Strait
2. Updated September 2004.
3. The summary of surveyed forests in Chapter 2 covers the intensive survey zone only, since forest ecosystems in the extensive survey zone are so fragile that timber harvesting is prohibited.
4. Land supporting forest stands.
5. Forest stations, experimental and research forests, etc.
6. More than 800 hectares in a single block.

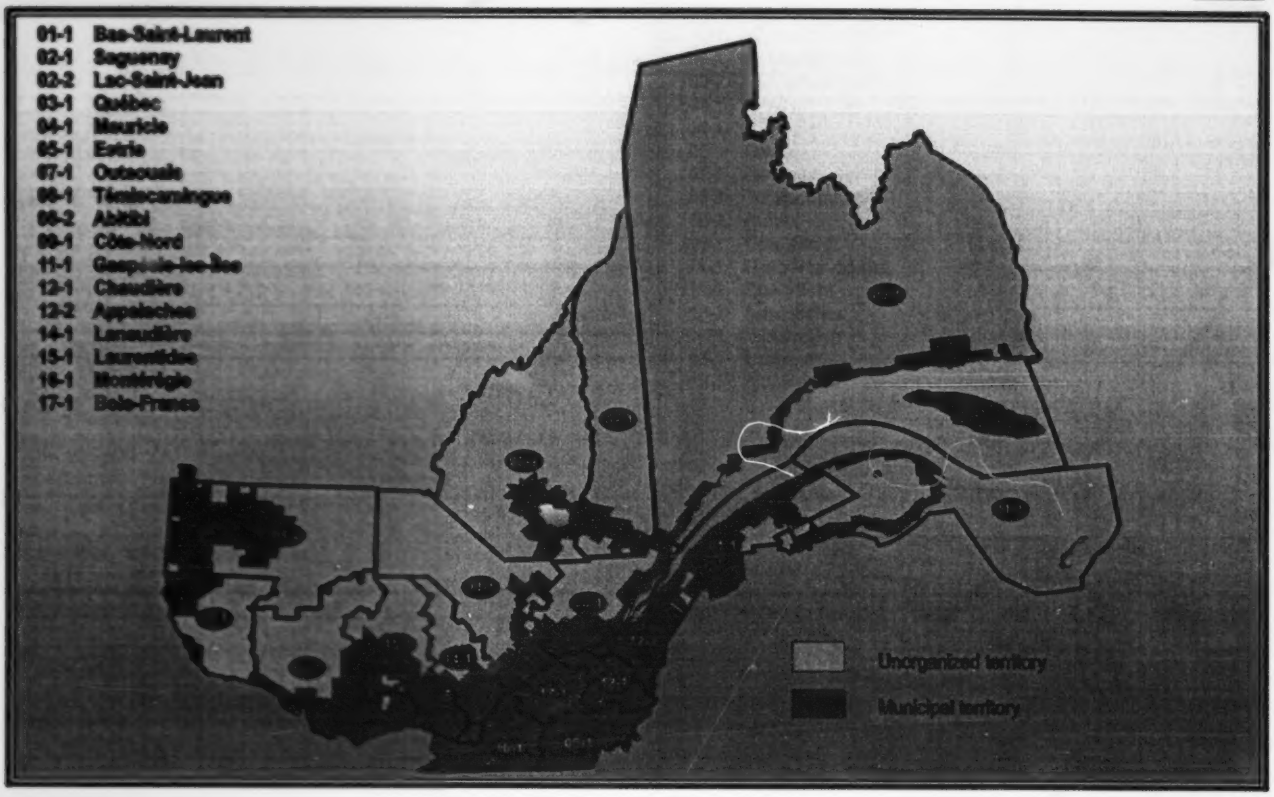
N.B. : Figures have been rounded off, which may have caused negligible errors in the totals.

# 1 Geographical distribution of Québec's forests

## Private forests

## Regional agencies for private forest development [1]

01 07 01




1. Updated April 2002.

## Regional agencies

| No. | Administrative regions | Name of agency | Number of owners [1] | Active owners (%) [2] |
|---|---|---|---|---|
| 01-1 | Bas-Saint-Laurent | Agence régionale de mise en valeur des forêts privées du Bas-Saint-Laurent | 10 600 | 61 |
| 02-1 | Saguenay | Agence régionale de mise en valeur des forêts privées du Saguenay | 2 400 | 40 |
| 02-2 | Lac-Saint-Jean | Agence régionale de mise en valeur des forêts privées du Lac-Saint-Jean | 3 600 | 40 |
| 03-1 | Québec | Agence des forêts privées de Québec 03 (AFPQ) | 6 500 | 85 |
| 04-1 | Mauricie | Agence régionale de mise en valeur des forêts privées mauriciennes | 6 600 | 52 |
| 05-1 | Estrie | Agence régionale de mise en valeur des forêts privées de l'Estrie (AMFE) | 9 200 | 65 |
| 07-1 | Outaouais | Agence régionale de mise en valeur des forêts privées outaouaises | 10 900 | 61 |
| 08-1 | Témiscamingue | Agence régionale de mise en valeur des forêts privées du Témiscamingue (ARMVFPT) | 1 900 | 20 |
| 08-2 | Abitibi | Agence régionale de mise en valeur des forêts privées de l'Abitibi | 6 300 | 25 |
| 09-1 | Côte-Nord | Agence régionale de mise en valeur des forêts privées de la Côte-Nord | 850 | 62 |
| 11-1 | Gaspésie-les-Îles | Agence régionale de mise en valeur des forêts privées de la Gaspésie-les-Îles (AFOGÎM) | 5 000 | 40 |
| 12-1 | Chaudière | Agence régionale de mise en valeur des forêts privées de la Chaudière | 11 500 | 81 |
| 12-2 | Appalaches | Agence régionale de mise en valeur des forêts privées des Appalaches | 12 800 | 79 |
| 14-1 | Lanaudière | Agence régionale de mise en valeur des forêts privées de Lanaudière | 8 300 | 54 |
| 15-1 | Laurentides | Agence régionale de mise en valeur des forêts privées des Laurentides | 13 400 | 12 |
| 16-1 | Montérégie | Agence forestière de la Montérégie | 10 500 | 66 |
| 17-1 | Bois-Francs | Agence forestière des Bois-Francs (AFBF) | 9 500 | 72 |
| **Total** | | | **129 850** | **57** |

1. Number of woodlot owners (4 ha and over) per development agency.
2. Percentage of active owners over a five-year period.

Source : Private Forest Protection and Development Plan (April 2002).

# 1 Geographical distribution of Québec's forest

## Types of ownership and survey zones

### Breakdown of Québec [1] by survey zone and type of ownership [2]

01.06.02

| | Administrative regions | | | | | | | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| | (km²) | | | | | | | | | | | | | | | | | |
| **UNSURVEYED ZONE** | | | | | | | | | | | | | | | | | | |
| Québec public lands | | | | | | | | | | 260 771 | | | | | | | | 260 771 |
| Private lands (Inuit) | | | | | | | | | | 6 551 | | | | | | | | 6 551 |
| Federal lands | | | | | | | | | | | | | | | | | | |
| **Total area** | | | | | | | | | | **267 322** | | | | | | | | **267 322** |
| **EXTENSIVE SURVEY ZONE** [3] | | | | | | | | | | | | | | | | | | |
| Québec public lands | | 9 094 | | | | | | | 153 908 | 472 171 | | | | | | | | 635 173 |
| Forests in the domain of the State [4] | | 9 094 | | | | | | | 153 908 | 472 171 | | | | | | | | 635 173 |
| Other tenures [5] | | | | | | | | | | | | | | | | | | |
| Private lands | | | | | | | | | 30 | 2 116 | | | | | | | | 2 146 |
| Large holdings [6] | | | | | | | | | | 2 116 | | | | | | | | 2 116 |
| Small holdings | | | | | | | | | 30 | | | | | | | | | 30 |
| Federal lands | | | | | | | | | 38 | 1 525 | | | | | | | | 1 563 |
| **Total area** | | **9 094** | | | | | | | **153 976** | **475 812** | | | | | | | | 638 882 |
| **INTENSIVE SURVEY ZONE** [3] | | | | | | | | | | | | | | | | | | |
| Québec public lands | 11 574 | 90 658 | 12 472 | 31 388 | 756 | 93 | 25 669 | 57 393 | 113 286 | 89 976 | 16 190 | 1 603 | | 9 109 | 15 228 | 588 | 95 | 476 077 |
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| Other tenures | 315 | 775 | 1 331 | 75 | 212 | | 311 | 2 318 | 1 771 | 153 | 806 | 129 | | 833 | 830 | 33 | 14 | 9 906 |
| Private lands | 11 105 | 6 619 | 6 716 | 7 701 | 9 695 | 514 | 7 904 | 7 188 | 1 928 | 1 089 | 3 995 | 13 649 | 267 | 4 384 | 6 818 | 11 154 | 6 974 | 107 701 |
| Large holdings | 1 126 | 882 | 2 323 | 3 726 | 1 310 | | 489 | 142 | 953 | 862 | 125 | 685 | | 2 | 33 | 33 | 60 | 12 752 |
| Small holdings | 9 979 | 5 737 | 4 393 | 3 975 | 8 385 | 514 | 7 415 | 7 046 | 976 | 226 | 3 870 | 12 964 | 267 | 4 382 | 6 786 | 11 121 | 6 914 | 94 948 |
| Federal lands | 2 | 26 | 610 | 818 | 5 | 15 | 545 | 26 | 3 099 | 1 258 | 289 | 226 | | 8 | 478 | 103 | 263 | 7 771 |
| **Total area** | **22 681** | **97 303** | **19 798** | **39 908** | **10 456** | **622** | **34 118** | **64 607** | **118 314** | **92 322** | **20 474** | **15 478** | **267** | **13 501** | **22 525** | **11 845** | **7 332** | **591 549** |
| **Total (land)** | **22 681** | **106 397** | **19 798** | **39 908** | **10 456** | **622** | **34 118** | **64 607** | **272 290** | **835 456** | **20 474** | **15 478** | **267** | **13 501** | **22 525** | **11 845** | **7 332** | **1 497 753** |

1. Not including areas covered by the waters of the St. Lawrence River and Gulf, James Bay, Hudson Bay, Ungava Bay and the Hudson Strait
2. Updated September 2004
3. The summary of surveyed forests in Chapter 2 covers the intensive survey zone only, since forest ecosystems in the extensive survey zone are so fragile that timber harvesting is prohibited.
4. Land supporting forest stands.
5. Forest stations, experimental and research forests, etc.
6. More than 800 hectares in a single block.

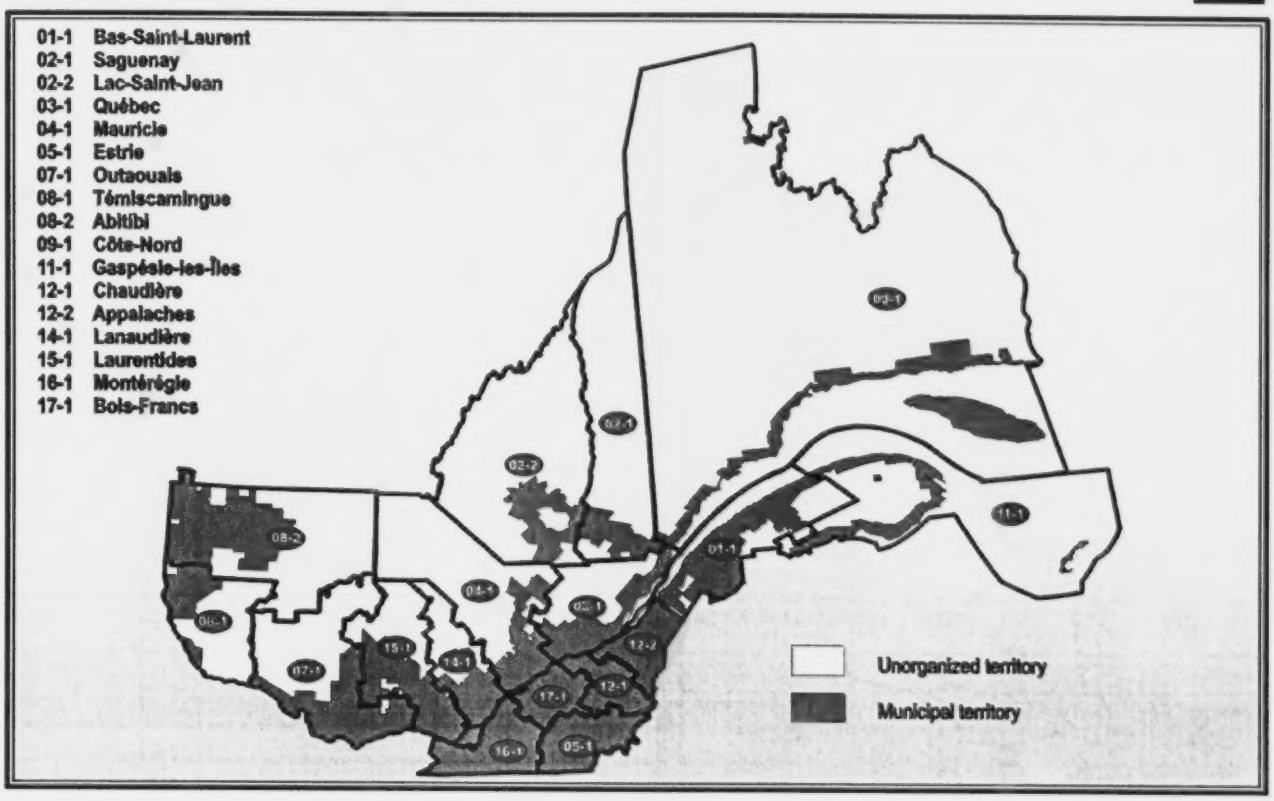
**N.B.** : Figures have been rounded off, which may have caused negligible errors in the totals.

# 1 Geographical distribution of Québec's forests

## Private forests

## Regional agencies for private forest development [1]

01.07.01




1. Updated April 2002.

## Regional agencies

| No. | Administrative regions | Name of agency | Number of owners [1] | Active owners (%) [2] |
|---|---|---|---|---|
| 01-1 | Bas-Saint-Laurent | Agence régionale de mise en valeur des forêts privées du Bas-Saint-Laurent | 10 600 | 61 |
| 02-1 | Saguenay | Agence régionale de mise en valeur des forêts privées du Saguenay | 2 400 | 40 |
| 02-2 | Lac-Saint-Jean | Agence régionale de mise en valeur des forêts privées du Lac-Saint-Jean | 3 600 | 40 |
| 03-1 | Québec | Agence des forêts privées de Québec 03 (AFPQ) | 6 500 | 85 |
| 04-1 | Mauricie | Agence régionale de mise en valeur des forêts privées mauriciennes | 6 600 | 52 |
| 05-1 | Estrie | Agence régionale de mise en valeur des forêts privées de l'Estrie (AMFE) | 9 200 | 65 |
| 07-1 | Outaouais | Agence régionale de mise en valeur des forêts privées outaouaises | 10 900 | 61 |
| 08-1 | Témiscamingue | Agence régionale de mise en valeur des forêts privées du Témiscamingue (ARMVFPT) | 1 900 | 20 |
| 08-2 | Abitibi | Agence régionale de mise en valeur des forêts privées de l'Abitibi | 6 300 | 25 |
| 09-1 | Côte-Nord | Agence régionale de mise en valeur des forêts privées de la Côte-Nord | 850 | 62 |
| 11-1 | Gaspésie-les-Îles | Agence régionale de mise en valeur des forêts privées de la Gaspésie-les-Îles (AFOGÎM) | 5 000 | 40 |
| 12-1 | Chaudière | Agence régionale de mise en valeur des forêts privées de la Chaudière | 11 500 | 81 |
| 12-2 | Appalaches | Agence régionale de mise en valeur des forêts privées des Appalaches | 12 800 | 79 |
| 14-1 | Lanaudière | Agence régionale de mise en valeur des forêts privées de Lanaudière | 8 300 | 54 |
| 15-1 | Laurentides | Agence régionale de mise en valeur des forêts privées des Laurentides | 13 400 | 12 |
| 16-1 | Montérégie | Agence forestière de la Montérégie | 10 500 | 66 |
| 17-1 | Bois-Francs | Agence forestière des Bois-Francs (AFBF) | 9 500 | 72 |
| **Total** | | | **129 850** | **57** |

1. Number of woodlot owners (4 ha and over) per development agency.
2. Percentage of active owners over a five-year period.

**Source** : Private Forest Protection and Development Plan (April 2002)

# 1 Geographical distribution of Québec's forests

## Private forests (cont'd)

## Areas covered by syndicates and wood marketing boards [1]

01 07 04

1. Updated April 2001

### Syndicates or boards

01 - Syndicat des producteurs de bois de la Gaspésie
02 - Syndicat des producteurs de bois du Bas-Saint-Laurent
03 - Syndicat des producteurs de bois du Saguenay—Lac-Saint-Jean
04 - Syndicat des producteurs de bois de la Côte-du-Sud
05 - Syndicat des producteurs de bois de la région de Québec
06 - Syndicat des producteurs de bois de la Beauce
07 - Syndicat des producteurs de bois de la Mauricie
08 - Syndicat des producteurs de bois du Centre-du-Québec
09 - Syndicat des producteurs de bois de l'Estrie
10 - Syndicat des producteurs de bois de la région de Montréal
11 - Office des producteurs de bois du Pontiac
12 - Syndicat des producteurs de bois Outaouais-Laurentides
13 - Syndicat des producteurs de bois du comté de Labelle
14 - Office des producteurs de bois de la Gatineau
15 - Syndicat des producteurs de bois d'Abitibi-Témiscamingue

# 2 Intensive survey zone

## Highlights

02.00.01

| Land survey | Area ($km^2$) | Gross merchantable Volume ($m^3$, 000s) |
|---|---|---|
| Intensive survey zone [1] | 591 549 | |
| Bodies of water | -58 302 | |
| Non-forest land | -34 894 | |
| Forest land | 498 353 | |
| Unproductive forest land | -62 838 | |
| Productive forest land (grades of 41 % and over) | -11 401 | |
| Productive forest land (grades between 0 % and 40 %) | 424 114 | 3 791 919 |
| • Québec public lands | 355 004 | 3 124 029 |
| • Small private holdings | 55 306 | 546 006 |
| • Large private holdings | 10 940 | 91 472 |
| • Federal lands | 2 864 | 30 413 |

1. Area in which the ministère des Ressources naturelles et de la Faune conducts detailed forest surveys.

## 2 Intensive survey zone

### Area of productive forests (grades between 0 % and 40 %) [1] and available gross merchantable volume
### By age, forest type and administrative region

02 03 01

| | | Administrative regions | | | | | | | | Subtotal[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 01 | | 02 | | 03 | | 04 | | | |
| | | (km²) | (m³, 000s) | (km²) | (m³, 000s) | (km²) | (m³, 000s) | (km²) | (m³, 000s) | (km²) | (m³, 000s) |
| **Total area[2]** | | **18 357** | **163 407** | **74 990** | **560 943** | **15 657** | **121 645** | **31 343** | **331 490** | **140 347** | **1 177 485** |
| By age | 0-10 years | 4 826 | 2 092 | 16 943 | 2 010 | 2 667 | 1 218 | 5 684 | 321 | 30 120 | 5 641 |
| | 30 years | 1 788 | 12 900 | 8 046 | 28 970 | 3 104 | 12 820 | 2 862 | 17 288 | 15 800 | 71 979 |
| | 50 years | 6 770 | 81 711 | 10 495 | 98 380 | 5 093 | 51 862 | 7 863 | 88 950 | 30 221 | 320 903 |
| | 70 years | 3 299 | 44 337 | 12 121 | 137 733 | 2 216 | 24 258 | 7 876 | 127 346 | 25 512 | 333 673 |
| | 90 years | 1 422 | 19 231 | 9 207 | 100 506 | 2 328 | 29 744 | 5 478 | 78 484 | 18 436 | 227 966 |
| | 120 years | 252 | 3 135 | 18 178 | 193 344 | 249 | 1 743 | 1 580 | 19 102 | 20 259 | 217 323 |
| By forest type | Softwood | 6 716 | 63 077 | 45 144 | 395 525 | 5 535 | 38 191 | 10 243 | 109 217 | 67 638 | 606 009 |
| | Mixedwood | 6 249 | 58 749 | 15 138 | 112 684 | 5 883 | 48 558 | 12 931 | 147 688 | 40 201 | 367 679 |
| | Hardwood | 3 975 | 41 581 | 5 601 | 52 735 | 3 243 | 34 897 | 6 092 | 74 585 | 18 912 | 203 798 |
| | Regenerating | 1 418 | | 9 107 | | 996 | | 2 077 | | 13 597 | |
| **Québec public lands[2]** | | **10 593** | **98 401** | **70 870** | **535 412** | **10 670** | **76 530** | **25 531** | **279 466** | **117 664** | **989 809** |
| By age | 0-10 years | 2 773 | 70 | 15 678 | 579 | 1 787 | 38 | 4 351 | 74 | 24 590 | 762 |
| | 30 years | 847 | 5 461 | 6 990 | 22 654 | 2 212 | 8 006 | 2 205 | 12 376 | 12 254 | 48 498 |
| | 50 years | 2 949 | 38 821 | 8 992 | 83 516 | 3 044 | 28 950 | 5 632 | 63 713 | 20 617 | 215 001 |
| | 70 years | 2 598 | 35 294 | 11 881 | 135 362 | 1 698 | 18 059 | 7 369 | 120 440 | 23 547 | 309 155 |
| | 90 years | 1 207 | 16 054 | 9 161 | 100 053 | 1 682 | 19 768 | 4 631 | 66 563 | 16 681 | 202 438 |
| | 120 years | 219 | 2 700 | 18 167 | 193 247 | 246 | 1 709 | 1 343 | 16 299 | 19 975 | 213 955 |
| By forest type | Softwood | 4 748 | 46 952 | 44 226 | 390 017 | 4 672 | 31 634 | 8 598 | 96 456 | 62 245 | 565 059 |
| | Mixedwood | 3 263 | 31 650 | 13 529 | 101 053 | 3 660 | 28 261 | 10 848 | 126 973 | 31 300 | 287 937 |
| | Hardwood | 1 768 | 19 799 | 4 532 | 44 342 | 1 656 | 16 635 | 4 451 | 56 037 | 12 407 | 136 812 |
| | Regenerating | 814 | | 8 583 | | 682 | | 1 634 | | 11 713 | |
| **Small private holdings[2]** | | **6 707** | **56 117** | **3 335** | **21 292** | **2 772** | **25 729** | **2 274** | **24 516** | **15 088** | **127 655** |
| By age | 0-10 years | 1 775 | 2 022 | 985 | 1 375 | 546 | 1 136 | 430 | 206 | 3 736 | 4 739 |
| | 30 years | 747 | 6 093 | 841 | 5 312 | 477 | 2 969 | 362 | 3 305 | 2 426 | 17 679 |
| | 50 years | 3 559 | 39 838 | 1 335 | 13 088 | 1 343 | 15 445 | 994 | 13 215 | 7 230 | 81 587 |
| | 70 years | 484 | 6 031 | 169 | 1 493 | 131 | 1 600 | 214 | 3 158 | 999 | 12 282 |
| | 90 years | 139 | 2 065 | 6 | 23 | 275 | 4 579 | 273 | 4 620 | 693 | 11 287 |
| | 120 years | 3 | 69 | | | | | 1 | 12 | 4 | 81 |
| By forest type | Softwood | 1 385 | 9 450 | 591 | 3 558 | 436 | 2 988 | 314 | 2 449 | 2 726 | 18 445 |
| | Mixedwood | 2 742 | 25 565 | 1 389 | 10 359 | 1 194 | 11 163 | 879 | 9 511 | 6 204 | 56 599 |
| | Hardwood | 2 069 | 21 103 | 968 | 7 375 | 981 | 11 578 | 979 | 12 556 | 4 997 | 52 612 |
| | Regenerating | 510 | | 387 | | 161 | | 102 | | 1 161 | |
| **Large private holdings[2]** | | **1 056** | **8 868** | **774** | **4 136** | **2 022** | **17 287** | **3 033** | **20 324** | **6 885** | **50 615** |
| By age | 0-10 years | 278 | | 278 | 55 | 308 | 43 | 891 | 38 | 1 754 | 136 |
| | 30 years | 194 | 1 346 | 213 | 975 | 404 | 1 795 | 292 | 1 583 | 1 102 | 5 699 |
| | 50 years | 262 | 3 046 | 163 | 1 725 | 633 | 6 557 | 1 195 | 11 525 | 2 253 | 22 852 |
| | 70 years | 215 | 2 998 | 69 | 855 | 345 | 4 112 | 179 | 2 130 | 808 | 10 095 |
| | 90 years | 76 | 1 112 | 40 | 430 | 330 | 4 746 | 337 | 3 837 | 783 | 10 125 |
| | 120 years | 30 | 366 | 11 | 97 | 2 | 34 | 141 | 1 210 | 184 | 1 706 |
| By forest type | Softwood | 583 | 6 673 | 327 | 1 947 | 401 | 3 376 | 1 269 | 9 548 | 2 580 | 21 544 |
| | Mixedwood | 243 | 1 529 | 216 | 1 235 | 956 | 8 208 | 914 | 6 779 | 2 329 | 17 751 |
| | Hardwood | 137 | 665 | 95 | 955 | 528 | 5 703 | 516 | 3 997 | 1 276 | 11 320 |
| | Regenerating | 93 | | 135 | | 137 | | 335 | | 700 | |
| **Federal lands[2]** | | **2** | **21** | **10** | **103** | **192** | **2 099** | **505** | **7 184** | **709** | **9 407** |
| By age | 0-10 years | 0 | | 2 | 1 | 26 | | 13 | 2 | 40 | 3 |
| | 30 years | 0 | | 3 | 29 | 11 | 51 | 3 | 23 | 17 | 102 |
| | 50 years | 0 | 7 | 4 | 51 | 73 | 910 | 42 | 496 | 121 | 1 463 |
| | 70 years | 1 | 14 | 2 | 22 | 41 | 487 | 114 | 1 617 | 157 | 2 141 |
| | 90 years | | 0 | | | 41 | 652 | 237 | 3 464 | 278 | 4 116 |
| | 120 years | | | | | 0 | 0 | 95 | 1 581 | 96 | 1 581 |
| By forest type | Softwood | 0 | 1 | 0 | 3 | 25 | 193 | 62 | 763 | 87 | 961 |
| | Mixedwood | 1 | 6 | 3 | 36 | 73 | 925 | 291 | 4 425 | 368 | 5 392 |
| | Hardwood | 1 | 14 | 6 | 63 | 79 | 981 | 146 | 1 996 | 231 | 3 054 |
| | Regenerating | 0 | | 1 | | 16 | | 6 | | 23 | |

1. Updated September 2004.
2. The figures have been rounded off, which may have caused negligible errors.

## 2 Intensive survey zone

### Area of productive forests (grades between 0 % and 40 %) [1] and available gross merchantable volume (cont'd)

02 03 01

### By age, forest type and administrative region (cont'd)

| | | Administrative regions | | | | | | | | Subtotal[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 05 | | 06 | | 07 | | 08 | | | |
| | | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) |
| **Total area[2]** | | **7 668** | **87 691** | **41** | **319** | **27 239** | **365 699** | **48 594** | **447 449** | **83 543** | **901 157** |
| By age | 0-10 years | 1 620 | 212 | 20 | 3 | 2 570 | 6 426 | 8 490 | 2 128 | 12 700 | 8 769 |
| | 30 years | 1 328 | 12 604 | 7 | 61 | 1 630 | 13 782 | 5 792 | 26 012 | 8 757 | 52 459 |
| | 50 years | 3 603 | 55 106 | 11 | 190 | 7 953 | 119 826 | 9 665 | 98 437 | 21 232 | 273 558 |
| | 70 years | 329 | 5 061 | | | 4 990 | 69 120 | 11 140 | 145 627 | 16 460 | 219 807 |
| | 90 years | 787 | 14 701 | 3 | 65 | 9 727 | 152 527 | 10 242 | 138 637 | 20 758 | 305 930 |
| | 120 years | 1 | 8 | | | 369 | 4 018 | 3 265 | 36 609 | 3 635 | 40 634 |
| By forest type | Softwood | 1 269 | 13 214 | 0 | 3 | 3 474 | 37 245 | 17 687 | 146 247 | 22 431 | 196 709 |
| | Mixedwood | 2 818 | 31 999 | 3 | 24 | 10 429 | 143 927 | 17 092 | 178 043 | 30 342 | 353 993 |
| | Hardwood | 2 979 | 42 478 | 22 | 292 | 12 370 | 184 527 | 10 942 | 123 160 | 26 313 | 350 456 |
| | Regenerating | 601 | | 16 | | 966 | | 2 874 | | 4 457 | |
| **Québec public lands[2]** | | **679** | **9 602** | | | **21 551** | **286 729** | **44 910** | **422 327** | **67 140** | **718 657** |
| By age | 0-10 years | 70 | 5 | | | 1 875 | 5 184 | 7 395 | 1 916 | 9 341 | 7 105 |
| | 30 years | 58 | 484 | | | 1 326 | 10 382 | 5 197 | 22 057 | 6 581 | 32 922 |
| | 50 years | 294 | 4 951 | | | 4 778 | 69 612 | 8 153 | 82 573 | 13 226 | 157 136 |
| | 70 years | 108 | 1 621 | | | 4 259 | 57 473 | 10 766 | 141 269 | 15 132 | 200 363 |
| | 90 years | 149 | 2 535 | | | 8 947 | 140 126 | 10 201 | 138 258 | 19 297 | 280 919 |
| | 120 years | 1 | 7 | | | 366 | 3 952 | 3 197 | 36 254 | 3 564 | 40 213 |
| By forest type | Softwood | 108 | 1 012 | | | 2 992 | 29 833 | 17 128 | 143 116 | 20 227 | 173 961 |
| | Mixedwood | 273 | 3 525 | | | 8 510 | 114 009 | 16 237 | 170 569 | 25 020 | 288 104 |
| | Hardwood | 288 | 5 064 | | | 9 494 | 142 887 | 9 088 | 108 641 | 18 871 | 256 592 |
| | Regenerating | 10 | | | | 555 | | 2 457 | | 3 022 | |
| **Small private holdings[2]** | | **5 746** | **62 993** | **40** | **317** | **4 839** | **66 596** | **3 553** | **24 138** | **14 177** | **154 044** |
| By age | 0-10 years | 1 279 | 174 | 19 | 3 | 644 | 1 114 | 1 087 | 212 | 3 029 | 1 503 |
| | 30 years | 1 139 | 10 959 | 6 | 59 | 270 | 3 090 | 568 | 3 844 | 1 983 | 17 952 |
| | 50 years | 2 785 | 41 542 | 11 | 190 | 2 682 | 42 440 | 1 482 | 15 617 | 6 961 | 99 789 |
| | 70 years | 130 | 2 049 | | | 628 | 10 012 | 365 | 4 232 | 1 123 | 16 293 |
| | 90 years | 412 | 8 269 | 3 | 65 | 614 | 9 938 | 19 | 167 | 1 048 | 18 439 |
| | 120 years | | | | | 0 | 2 | 33 | 65 | 33 | 67 |
| By forest type | Softwood | 994 | 10 466 | 0 | 3 | 445 | 6 800 | 472 | 2 531 | 1 911 | 19 799 |
| | Mixedwood | 2 160 | 24 097 | 3 | 24 | 1 707 | 26 598 | 826 | 7 212 | 4 695 | 57 932 |
| | Hardwood | 2 059 | 28 430 | 21 | 290 | 2 296 | 33 198 | 1 839 | 14 395 | 6 215 | 76 313 |
| | Regenerating | 533 | | 15 | | 391 | | 416 | | 1 356 | |
| **Large private holdings[2]** | | **1 242** | **15 079** | | | **405** | **5 712** | **113** | **866** | **1 759** | **21 657** |
| By age | 0-10 years | 271 | 33 | | | 37 | 115 | 3 | | 310 | 147 |
| | 30 years | 131 | 1 161 | | | 24 | 204 | 22 | 76 | 177 | 1 442 |
| | 50 years | 522 | 8 596 | | | 208 | 3 294 | 23 | 185 | 753 | 12 074 |
| | 70 years | 91 | 1 391 | | | 40 | 669 | 8 | 104 | 140 | 2 164 |
| | 90 years | 226 | 3 897 | | | 93 | 1 365 | 22 | 212 | 340 | 5 474 |
| | 120 years | 0 | 1 | | | 3 | 64 | 35 | 290 | 39 | 355 |
| By forest type | Softwood | 167 | 1 733 | | | 19 | 327 | 85 | 588 | 271 | 2 648 |
| | Mixedwood | 386 | 4 373 | | | 106 | 1 680 | 23 | 235 | 515 | 6 289 |
| | Hardwood | 631 | 8 973 | | | 270 | 3 704 | 4 | 43 | 905 | 12 720 |
| | Regenerating | 58 | | | | 9 | | 0 | | 67 | |
| **Federal lands[2]** | | **1** | **17** | **1** | **2** | **445** | **6 662** | **19** | **118** | **467** | **6 800** |
| By age | 0-10 years | 0 | | 1 | | 13 | 13 | 6 | | 20 | 13 |
| | 30 years | 0 | 0 | 0 | 2 | 10 | 106 | 6 | 35 | 16 | 143 |
| | 50 years | 1 | 17 | | | 285 | 4 480 | 6 | 62 | 292 | 4 559 |
| | 70 years | 0 | | | | 63 | 966 | 2 | 21 | 65 | 987 |
| | 90 years | | | | | 74 | 1 098 | 0 | 0 | 74 | 1 098 |
| | 120 years | | | | | | | | | | |
| By forest type | Softwood | 0 | 3 | | | 19 | 285 | 2 | 13 | 21 | 300 |
| | Mixedwood | 0 | 4 | | | 105 | 1 639 | 6 | 26 | 111 | 1 669 |
| | Hardwood | 1 | 10 | 0 | 2 | 310 | 4 739 | 11 | 80 | 322 | 4 831 |
| | Regenerating | 0 | | 1 | | 11 | | 1 | | 13 | |

1. Updated September 2004.
2. The figures have been rounded off, which may have caused negligible errors.

## 2 Intensive survey zone

### Area of productive forests (grades between 0 % and 40 %) [1] and available gross merchantable volume (cont'd)

02 03 01

### By age, forest type and administrative region (cont'd)

| | | Administrative regions | | | | | | | | Subtotal[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 09 | | 10 | | 11 | | 12 | | | |
| | | (km²) | (m³ ,000s) | (km²) | (m³ ,000s) | (km²) | (m³ ,000s) | (km²) | (m³ ,000s) | (km²) | (m³ ,000s) |
| Total area[2] | | 80 293 | 661 885 | 57 768 | 389 011 | 16 383 | 137 961 | 10 920 | 94 021 | 165 365 | 1 282 878 |
| By age | 0-10 years | 11 995 | 15 | 15 722 | 440 | 3 242 | 66 | 2 997 | 1 694 | 33 956 | 2 214 |
| | 30 years | 5 699 | 12 111 | 3 461 | 5 323 | 2 637 | 11 820 | 1 774 | 13 755 | 13 571 | 43 008 |
| | 50 years | 6 601 | 53 148 | 2 927 | 17 634 | 5 173 | 57 980 | 4 475 | 54 459 | 19 176 | 183 221 |
| | 70 years | 6 223 | 67 221 | 13 160 | 162 523 | 2 615 | 33 214 | 809 | 10 129 | 22 807 | 273 087 |
| | 90 years | 23 201 | 253 282 | 5 858 | 60 685 | 2 195 | 29 070 | 859 | 13 901 | 32 112 | 356 937 |
| | 120 years | 26 575 | 276 108 | 16 640 | 142 406 | 521 | 5 813 | 7 | 84 | 43 743 | 424 411 |
| By forest type | Softwood | 61 782 | 587 209 | 39 117 | 321 515 | 7 194 | 67 647 | 2 468 | 21 264 | 110 560 | 997 635 |
| | Mixedwood | 8 165 | 59 267 | 7 368 | 54 342 | 6 141 | 51 515 | 4 709 | 38 727 | 26 384 | 203 851 |
| | Hardwood | 1 725 | 15 409 | 1 734 | 13 153 | 1 938 | 18 799 | 2 694 | 34 031 | 8 090 | 81 392 |
| | Regenerating | 8 622 | | 9 549 | | 1 111 | | 1 050 | | 20 331 | |
| Québec public lands[2] | | 78 693 | 650 956 | 56 061 | 376 339 | 13 271 | 110 335 | 1 493 | 14 705 | 149 519 | 1 152 336 |
| By age | 0-10 years | 11 718 | 15 | 15 446 | 434 | 2 594 | 6 | 420 | 15 | 30 178 | 470 |
| | 30 years | 5 468 | 11 306 | 3 378 | 4 986 | 2 105 | 8 477 | 83 | 474 | 11 033 | 25 244 |
| | 50 years | 5 967 | 47 533 | 2 824 | 16 732 | 3 886 | 42 843 | 373 | 5 608 | 13 050 | 112 717 |
| | 70 years | 6 051 | 65 539 | 13 017 | 160 956 | 2 158 | 26 968 | 439 | 5 880 | 21 664 | 259 344 |
| | 90 years | 22 969 | 250 960 | 5 323 | 55 829 | 2 014 | 26 288 | 171 | 2 644 | 30 476 | 335 721 |
| | 120 years | 26 520 | 275 602 | 16 074 | 137 401 | 516 | 5 753 | 7 | 83 | 43 117 | 418 840 |
| By forest type | Softwood | 60 940 | 580 762 | 37 884 | 311 467 | 6 467 | 61 657 | 532 | 5 252 | 105 823 | 959 138 |
| | Mixedwood | 7 664 | 55 846 | 7 165 | 52 156 | 4 534 | 36 609 | 590 | 5 917 | 19 952 | 150 528 |
| | Hardwood | 1 590 | 14 348 | 1 688 | 12 716 | 1 307 | 12 069 | 218 | 3 536 | 4 803 | 42 669 |
| | Regenerating | 8 500 | | 9 325 | | 963 | | 153 | | 18 940 | |
| Small private holdings[2] | | 578 | 3 882 | 138 | 808 | 2 780 | 24 845 | 8 773 | 72 706 | 12 270 | 102 241 |
| By age | 0-10 years | 99 | | 44 | 4 | 607 | 58 | 2 389 | 1 664 | 3 139 | 1 726 |
| | 30 years | 91 | 339 | 31 | 176 | 473 | 3 077 | 1 638 | 12 911 | 2 233 | 16 504 |
| | 50 years | 304 | 2 704 | 37 | 352 | 1 158 | 13 835 | 3 818 | 44 542 | 5 318 | 61 432 |
| | 70 years | 34 | 324 | 17 | 183 | 380 | 5 350 | 293 | 3 206 | 724 | 9 063 |
| | 90 years | 42 | 444 | 4 | 45 | 158 | 2 482 | 635 | 10 383 | 839 | 13 355 |
| | 120 years | 8 | 70 | 6 | 48 | 4 | 43 | | | 18 | 161 |
| By forest type | Softwood | 212 | 1 419 | 46 | 286 | 647 | 5 323 | 1 804 | 14 862 | 2 710 | 21 891 |
| | Mixedwood | 236 | 1 686 | 31 | 258 | 1 437 | 13 489 | 3 799 | 29 787 | 5 503 | 45 221 |
| | Hardwood | 82 | 777 | 36 | 263 | 560 | 6 033 | 2 332 | 28 056 | 3 010 | 35 129 |
| | Regenerating | 48 | | 26 | | 136 | | 837 | | 1 048 | |
| Large private holdings[2] | | 722 | 5 050 | 698 | 5 195 | 104 | 792 | 655 | 6 610 | 2 179 | 17 647 |
| By age | 0-10 years | 117 | | 139 | 1 | 20 | | 188 | 14 | 464 | 15 |
| | 30 years | 122 | 397 | 35 | 127 | 33 | 173 | 53 | 369 | 243 | 1 067 |
| | 50 years | 220 | 2 074 | 40 | 350 | 25 | 262 | 283 | 4 309 | 569 | 6 995 |
| | 70 years | 104 | 1 028 | 53 | 572 | 19 | 239 | 78 | 1 043 | 254 | 2 882 |
| | 90 years | 124 | 1 251 | 163 | 1 673 | 6 | 107 | 53 | 874 | 347 | 3 904 |
| | 120 years | 34 | 300 | 267 | 2 473 | 1 | 10 | 0 | 0 | 302 | 2 784 |
| By forest type | Softwood | 457 | 3 604 | 471 | 4 060 | 50 | 423 | 131 | 1 149 | 1 109 | 9 235 |
| | Mixedwood | 180 | 1 196 | 100 | 1 060 | 50 | 352 | 320 | 3 022 | 650 | 5 630 |
| | Hardwood | 45 | 250 | 6 | 75 | 3 | 17 | 144 | 2 439 | 198 | 2 781 |
| | Regenerating | 40 | | 120 | | 1 | | 60 | | 222 | |
| Federal lands[2] | | 300 | 1 997 | 870 | 6 667 | 228 | 1 990 | | | 1 398 | 10 655 |
| By age | 0-10 years | 60 | | 93 | 2 | 21 | 2 | | | 174 | 3 |
| | 30 years | 18 | 68 | 17 | 33 | 26 | 92 | | | 61 | 193 |
| | 50 years | 110 | 838 | 26 | 200 | 105 | 1 039 | | | 240 | 2 077 |
| | 70 years | 33 | 330 | 74 | 811 | 58 | 657 | | | 165 | 1 798 |
| | 90 years | 66 | 627 | 367 | 3 138 | 17 | 193 | | | 450 | 3 958 |
| | 120 years | 13 | 135 | 293 | 2 483 | 0 | 7 | | | 307 | 2 626 |
| By forest type | Softwood | 173 | 1 424 | 716 | 5 702 | 29 | 244 | | | 918 | 7 370 |
| | Mixedwood | 86 | 538 | 72 | 867 | 121 | 1 066 | | | 279 | 2 471 |
| | Hardwood | 7 | 36 | 5 | 98 | 67 | 680 | | | 79 | 814 |
| | Regenerating | 34 | | 77 | | 11 | | | | 121 | |

1. Updated September 2004.
2. The figures have been rounded off, which may have caused negligible errors.

## 2 Intensive survey zone

### Area of productive forests (grades between 0 % and 40 %) [1] and available gross merchantable volume (cont'd)

02.03.01

### By age, forest type and administrative region (cont'd)

| | | Administrative regions | | | | | | | | | | Total[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 13 | | 14 | | 15 | | 16 | | 17 | | | |
| | | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) | (km²) | (m³,000s) |
| **Total area[2]** | | **61** | **362** | **9 892** | **115 745** | **17 811** | **241 717** | **3 591** | **41 930** | **3 504** | **30 644** | **424 115** | **3 791 919** |
| By age | 0-10 years | 31 | | 1 610 | 323 | 1 717 | 2 241 | 564 | 219 | 787 | 694 | 81 487 | 20 100 |
| | 30 years | 14 | 108 | 879 | 6 657 | 1 065 | 7 695 | 837 | 7 790 | 761 | 5 078 | 41 685 | 194 774 |
| | 50 years | 15 | 233 | 3 042 | 42 239 | 6 233 | 92 904 | 1 654 | 23 516 | 1 790 | 21 722 | 83 364 | 958 296 |
| | 70 years | 0 | 1 | 2 461 | 38 162 | 2 822 | 41 348 | 114 | 1 923 | 37 | 489 | 70 213 | 908 491 |
| | 90 years | 1 | 20 | 1 764 | 26 919 | 5 634 | 93 102 | 422 | 8 482 | 129 | 2 662 | 79 255 | 1 022 017 |
| | 120 years | | | 135 | 1 446 | 340 | 4 427 | | | | | 68 112 | 688 241 |
| By forest type | Softwood | | | 1 399 | 15 153 | 2 450 | 25 815 | 212 | 2 936 | 548 | 4 150 | 205 237 | 1 848 406 |
| | Mixedwood | 8 | 63 | 4 838 | 58 891 | 6 328 | 86 264 | 815 | 11 159 | 973 | 10 031 | 109 889 | 1 091 929 |
| | Hardwood | 25 | 299 | 3 320 | 41 702 | 8 617 | 129 638 | 2 255 | 27 835 | 1 705 | 16 463 | 69 236 | 851 584 |
| | Regenerating | 28 | | 335 | | 416 | | 310 | | 279 | | 39 753 | |
| **Québec public lands[2]** | | | | **7 596** | **88 090** | **12 995** | **174 262** | **23** | **227** | **67** | **648** | **355 004** | **3 124 029** |
| By age | 0-10 years | | | 1 264 | 249 | 1 093 | 1 331 | 7 | 2 | 11 | 4 | 66 482 | 9 922 |
| | 30 years | | | 635 | 4 272 | 861 | 5 863 | 5 | 46 | 12 | 79 | 31 382 | 116 923 |
| | 50 years | | | 1 755 | 23 796 | 3 326 | 47 417 | 6 | 92 | 38 | 463 | 52 018 | 556 621 |
| | 70 years | | | 2 159 | 33 552 | 2 434 | 34 885 | 0 | 5 | 3 | 37 | 64 938 | 837 342 |
| | 90 years | | | 1 648 | 24 775 | 4 947 | 80 471 | 5 | 83 | 4 | 66 | 73 059 | 924 473 |
| | 120 years | | | 135 | 1 446 | 334 | 4 296 | | | | | 67 125 | 678 749 |
| By forest type | Softwood | | | 1 240 | 13 244 | 2 091 | 21 559 | 1 | 11 | 14 | 123 | 191 640 | 1 733 097 |
| | Mixedwood | | | 3 959 | 47 633 | 4 787 | 63 208 | 3 | 31 | 28 | 309 | 85 049 | 837 749 |
| | Hardwood | | | 2 170 | 27 213 | 5 938 | 89 496 | 15 | 185 | 22 | 216 | 44 225 | 553 183 |
| | Regenerating | | | 228 | | 179 | | 4 | | 4 | | 34 090 | |
| **Small private holdings[2]** | | **61** | **362** | **2 287** | **27 560** | **4 567** | **64 130** | **3 479** | **40 601** | **3 377** | **29 413** | **55 307** | **546 006** |
| By age | 0-10 years | 31 | | 345 | 74 | 587 | 908 | 539 | 200 | 763 | 681 | 12 170 | 9 831 |
| | 30 years | 14 | 108 | 244 | 2 383 | 185 | 1 652 | 825 | 7 677 | 739 | 4 936 | 8 648 | 68 892 |
| | 50 years | 15 | 233 | 1 285 | 18 418 | 2 785 | 43 596 | 1 609 | 22 826 | 1 731 | 21 019 | 26 933 | 348 900 |
| | 70 years | 0 | 1 | 302 | 4 597 | 354 | 5 943 | 111 | 1 876 | 32 | 415 | 3 645 | 50 470 |
| | 90 years | 1 | 20 | 112 | 2 088 | 650 | 11 901 | 395 | 8 021 | 112 | 2 362 | 3 850 | 67 473 |
| | 120 years | | | | | 6 | 131 | | | | | 61 | 440 |
| By forest type | Softwood | | | 159 | 1 909 | 335 | 3 946 | 210 | 2 917 | 524 | 3 974 | 8 574 | 72 880 |
| | Mixedwood | 8 | 63 | 876 | 11 224 | 1 466 | 21 917 | 807 | 11 044 | 930 | 9 541 | 20 489 | 213 539 |
| | Hardwood | 25 | 299 | 1 146 | 14 428 | 2 560 | 38 267 | 2 169 | 26 640 | 1 652 | 15 898 | 21 774 | 259 586 |
| | Regenerating | 28 | | 107 | | 207 | | 293 | | 271 | | 4 470 | |
| **Large private holdings[2]** | | | | **2** | **35** | **29** | **500** | **31** | **502** | **55** | **517** | **10 940** | **91 472** |
| By age | 0-10 years | | | 0 | | 0 | 1 | 3 | 8 | 13 | 9 | 2 545 | 316 |
| | 30 years | | | | | 2 | 23 | 1 | 7 | 10 | 60 | 1 535 | 8 297 |
| | 50 years | | | 1 | 9 | 11 | 187 | 11 | 182 | 17 | 180 | 3 615 | 42 480 |
| | 70 years | | | 0 | 6 | 4 | 69 | 1 | 25 | 2 | 35 | 1 209 | 15 277 |
| | 90 years | | | 1 | 19 | 11 | 221 | 16 | 281 | 13 | 234 | 1 511 | 20 257 |
| | 120 years | | | | | | | | | | | 524 | 4 846 |
| By forest type | Softwood | | | | | 3 | 34 | 1 | 8 | 9 | 48 | 3 972 | 33 518 |
| | Mixedwood | | | 1 | 15 | 9 | 173 | 3 | 58 | 15 | 174 | 3 523 | 30 091 |
| | Hardwood | | | 1 | 19 | 17 | 293 | 27 | 436 | 27 | 294 | 2 451 | 27 863 |
| | Regenerating | | | | | 0 | | 0 | | 5 | | 994 | |
| **Federal lands[2]** | | | | **7** | **61** | **221** | **2 824** | **58** | **600** | **5** | **67** | **2 864** | **30 413** |
| By age | 0-10 years | | | 2 | | 37 | 1 | 16 | 10 | 1 | | 290 | 31 |
| | 30 years | | | 0 | 2 | 17 | 158 | 7 | 60 | 0 | 5 | 120 | 663 |
| | 50 years | | | 1 | 16 | 111 | 1 704 | 29 | 416 | 4 | 61 | 797 | 10 296 |
| | 70 years | | | 0 | 5 | 30 | 452 | 1 | 17 | 0 | 1 | 420 | 5 402 |
| | 90 years | | | 3 | 37 | 26 | 509 | 5 | 96 | | | 836 | 9 814 |
| | 120 years | | | | | | | | | | | 402 | 4 207 |
| By forest type | Softwood | | | 1 | 0 | 22 | 275 | | | 1 | 5 | 1 050 | 8 912 |
| | Mixedwood | | | 2 | 19 | 68 | 966 | 2 | 26 | 1 | 7 | 828 | 10 550 |
| | Hardwood | | | 3 | 42 | 103 | 1 582 | 44 | 574 | 4 | 55 | 786 | 10 951 |
| | Regenerating | | | | | 30 | | 12 | | 0 | | 200 | |

1. Updated September 2004.
2. The figures have been rounded off, which may have caused negligible errors.

# 3 Forest protection in Québec

## Highlights

03 00 01

### Area affected by spruce budworms (ha, 000s)

| | 2005 | 2006 |
|---|---|---|
| Light defoliation | 3,7 | 10,8 |
| Moderate defoliation | 11,9 | 14,4 |
| Severe defoliation | 27,7 | 25,3 |
| **Total area affected** | **43,3** | **50,5** |

### Areas affected by hemlock loopers (ha)

| | 2005 | 2006 |
|---|---|---|
| Light defoliation | 4 | 0 |
| Moderate defoliation | 4 | 0 |
| Severe defoliation | 0 | |
| **Total area affected** | **8** | **0** |

### Forest fires

| | 2005 | 2006 |
|---|---|---|
| **Intensive protection zone** | | |
| • Fires (no.) | 1 258 | 573 |
| • Area disturbed (ha, 000s) | 386,7 | 13,7 |
| • Fire control and firefighting costs ($, million) | 120,8 | 67,6 |
| • Relative importance of fires caused by lightning[1] (%) | | |
| - Number | 34 | |
| - Area disturbed | 95 | |
| | **2005** | **2006** |
| **Limited protection zone** | | |
| • Fires (no.) | 116 | 60 |
| • Area disturbed (ha, 000s) | 413,5 | 110,5 |
| • Fire control and firefighting costs ($, million) | 1,5 | 0,8 |

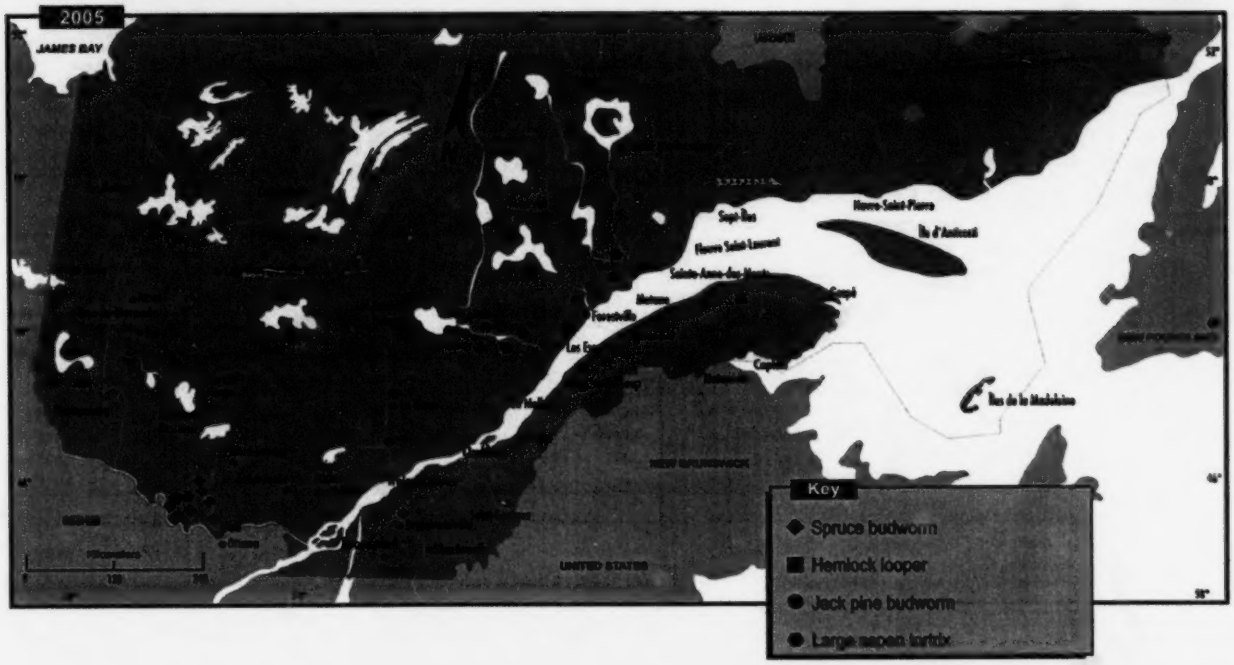
1. Lightning was the main cause of forest fires in Québec during the period 1996-2005.

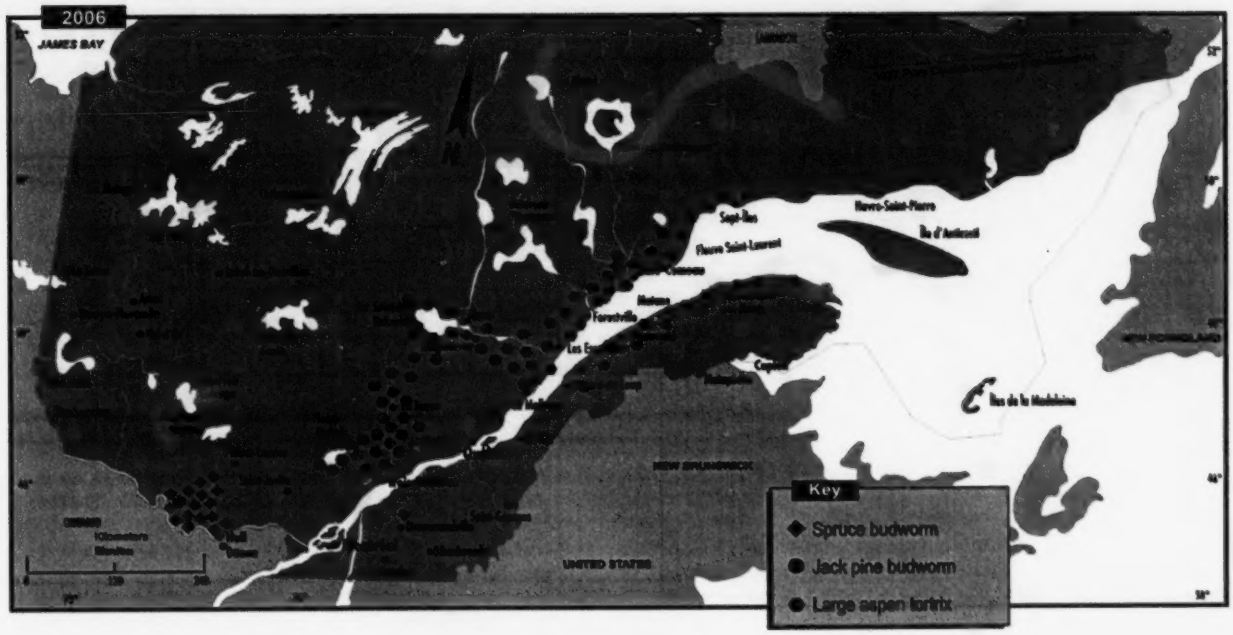
## 3 Forest protection in Québec

### Insects and diseases

### Areas damaged by defoliator insects

03.03.01



# 3 Forest protection in Québec

## Highlights

03.00.01

### Area affected by spruce budworms (ha, 000s)

| | 2005 | 2006 |
|---|---|---|
| Light defoliation | 3.7 | 10.8 |
| Moderate defoliation | 11.9 | 14.4 |
| Severe defoliation | 27.7 | 25.3 |
| **Total area affected** | 43.3 | 50.5 |

### Areas affected by hemlock loopers (ha)

| | 2005 | 2006 |
|---|---|---|
| Light defoliation | 4 | 0 |
| Moderate defoliation | 4 | 0 |
| Severe defoliation | 0 | |
| **Total area affected** | 8 | 0 |

### Forest fires

| | 2005 | 2006 |
|---|---|---|
| **Intensive protection zone** | | |
| • Fires (no.) | 1 258 | 573 |
| • Area disturbed (ha, 000s) | 386.7 | 13.7 |
| • Fire control and firefighting costs ($, million) | 120.8 | 67.6 |
| • Relative importance of fires caused by lightning[1] (%) | | |
| - Number | 34 | |
| - Area disturbed | 95 | |
| | 2005 | 2006 |
| **Limited protection zone** | | |
| • Fires (no.) | 116 | 60 |
| • Area disturbed (ha, 000s) | 413.5 | 110.5 |
| • Fire control and firefighting costs ($, million) | 1.5 | 0.8 |

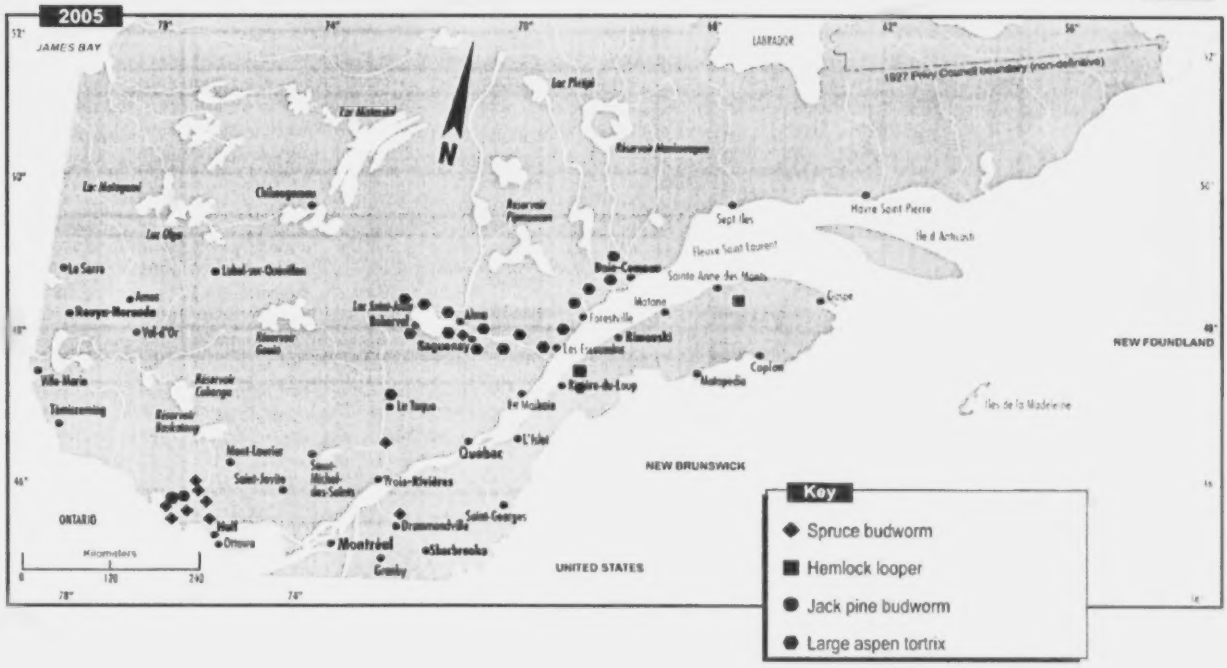
1. Lightning was the main cause of forest fires in Quebec during the period 1996-2005

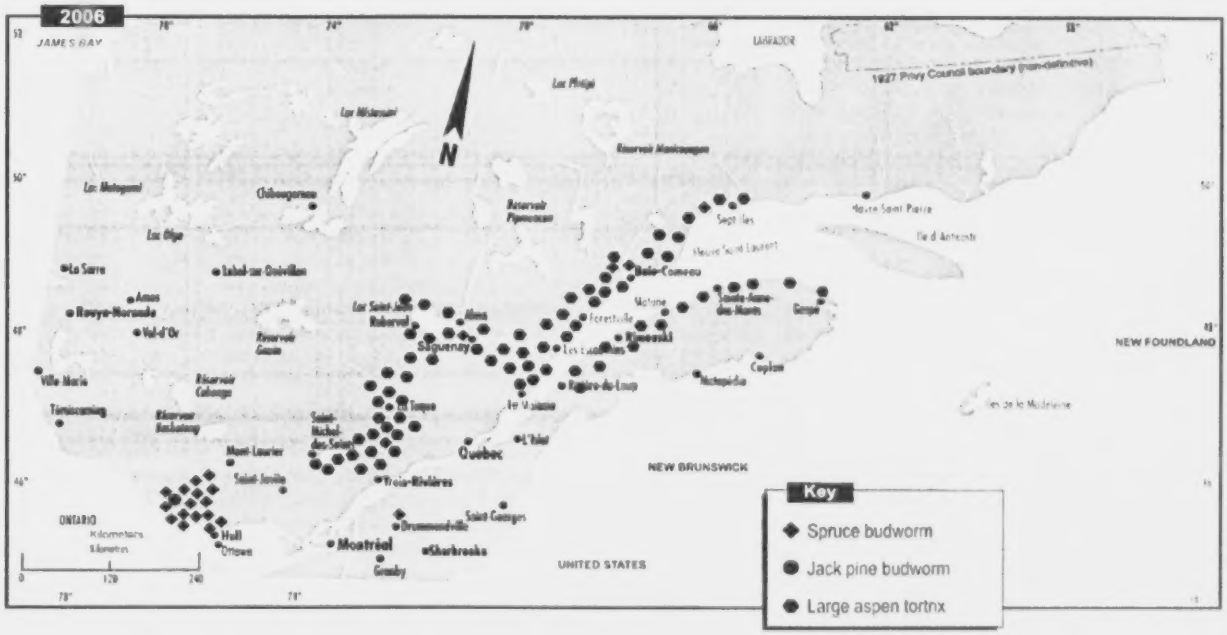
# 3 Forest protection in Québec

## Insects and diseases

## Areas damaged by defoliator insects

03.03.01



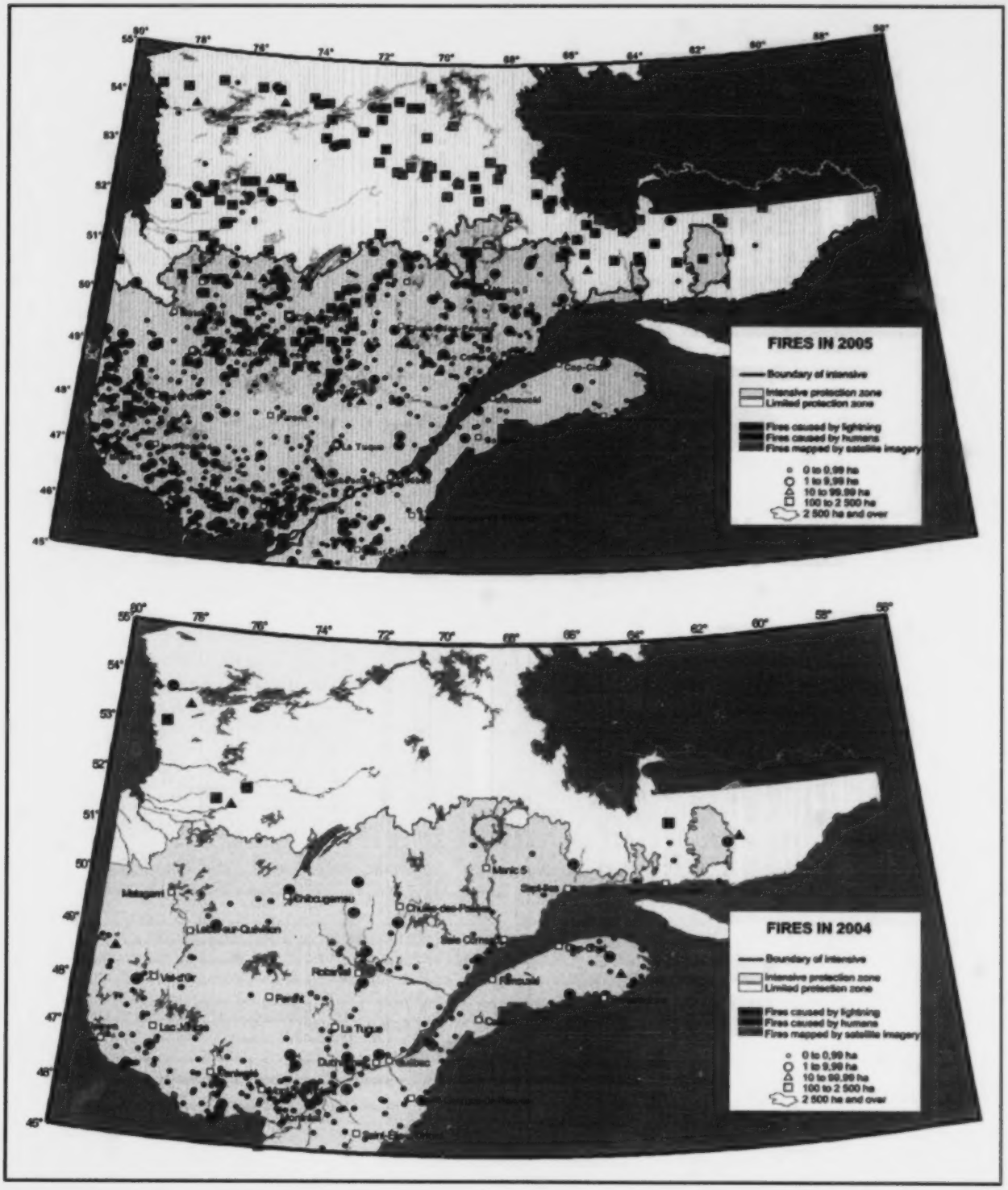



## 3 Forest protection in Québec

### Forest fires

### Areas damaged by fires

03.04.01



# 3 Forest protection in Québec

## Forest fires (cont'd)

### Intensive protection zone

### Breakdown of forest fires by administrative region

| Administrative regions | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | Total |
|---|---|---|---|---|---|---|---|---|
| 01 Bas-Saint-Laurent | no. | 19 | 21 | 13 | 5 | 14 | 7 | 79 |
| | ha | 2 | 79 | 3 | 1 | 5 | 1 | 91 |
| 02 Saguenay—Lac-Saint-Jean | no. | 91 | 121 | 89 | 27 | 207 | 89 | 624 |
| | ha | 361 | 90 809 | 8 760 | 29 | 259 846 | 1 011 | 358 816 |
| 03 Capitale-Nationale | no. | 54 | 50 | 34 | 9 | 14 | 16 | 177 |
| | ha | 25 | 14 | 40 | 3 | 11 | 1 | 94 |
| 04 Mauricie [1] | no. | 56 | 90 | 67 | 29 | 60 | 53 | 355 |
| | ha | 83 | 74 | 566 | 13 | 28 | 67 | 831 |
| 05 Estrie | no. | 54 | 12 | 16 | 6 | 18 | 3 | 109 |
| | ha | 39 | 4 | 11 | 0 | 18 | 1 | 73 |
| 06 Montréal | no. | | | | | | | 0 |
| | ha | | | | | | | 0 |
| 07 Outaouais | no. | 131 | 98 | 49 | 38 | 143 | 36 | 495 |
| | ha | 56 | 36 | 254 | 18 | 97 | 22 | 483 |
| 08 Abitibi-Témiscamingue | no. | 178 | 94 | 51 | 33 | 249 | 77 | 682 |
| | ha | 233 | 91 | 153 | 33 | 11 749 | 148 | 12 405 |
| 09 Côte-Nord | no. | 59 | 58 | 72 | 24 | 153 | 45 | 411 |
| | ha | 6 | 6 359 | 484 | 12 | 26 022 | 884 | 33 767 |
| 10 Nord-du-Québec | no. | 49 | 54 | 35 | 10 | 170 | 155 | 473 |
| | ha | 363 | 134 820 | 621 | 5 | 86 734 | 11 553 | 236 096 |
| 11 Gaspésie—Îles-de-la-Madeleine | no. | 25 | 25 | 15 | 23 | 11 | 11 | 110 |
| | ha | 11 | 79 | 4 | 72 | 2 | 2 | 170 |
| 12 Chaudière-Appalaches | no. | 25 | 36 | 27 | 14 | 19 | 15 | 136 |
| | ha | 11 | 9 | 14 | 8 | 8 | 3 | 53 |
| 13 Laval | no. | | | | | | | 0 |
| | ha | | | | | | | 0 |
| 14 Lanaudière | no. | 88 | 44 | 52 | 33 | 72 | 18 | 307 |
| | ha | 35 | 20 | 48 | 24 | 50 | 2 | 179 |
| 15 Laurentides | no. | 78 | 61 | 69 | 37 | 85 | 29 | 359 |
| | ha | 53 | 23 | 37 | 7 | 55 | 16 | 191 |
| 16 Montérégie | no. | 41 | 23 | 16 | 7 | 28 | 15 | 130 |
| | ha | 64 | 21 | 18 | 31 | 30 | 14 | 178 |
| 17 Centre-du-Québec | no. | 22 | 16 | 22 | 5 | 15 | 4 | 84 |
| | ha | 16 | 5 | 35 | 2 | 16 | 1 | 75 |
| Total | no. | 970 | 803 | 627 | 300 | 1 258 | 573 | 4 531 |
| | ha | 1 358 | 232 443 | 9 048 | 258 | 386 671 | 13 724 | 643 582 |

1. This breakdown has been made according to the boundaries of the administrative regions established in November of 2004.

# 4 Sustainable development of Québec's forests
## Highlights

### Sustainable development criteria

04 00 01

1 - Preservation of biological diversity
2 - Maintenance and improvement of the conditions and productivity of forest ecosystems
3 - Conservation of soil and water resources
4 - Maintenance of the function of forest ecosystems as a component of global ecological cycles
5 - Maintenance of the multiple socio-economic benefits society derives from the forests
6 - Giving of proper consideration, in selecting forms of development, to the values and needs expressed by the populations concerned

### Distribution of protected areas by bioclimatic domain

| | ($km^2$) |
|---|---|
| Sugar maple-bitternut hickory domain | 296 |
| Sugar maple-basswood domain | 884 |
| Sugar maple-yellow birch domain | 2 717 |
| Balsam fir-yellow birch domain | 2 395 |
| Balsam fir-white birch domain | 14 463 |
| Spruce-moss domain | 28 664 |
| Spruce-lichen domain | 4 542 |
| Forest tundra domain | 21 908 |
| Shrub arctic tundra domain | 16 953 |
| Herbaceous arctic tundra domain | 1 321 |
| Waters of the St. Lawrence River, James Bay, Hudson Bay, Ungava Bay and Hudson Strait | 2 955 |
| **Total** | **97 098** |

### Plant species designated as threatened or vulnerable

Small White Leek
Puttyroot
Green dragon
Butterfly milkweed
Pod-fern
White wood-aster
American alpine lady fern
False hop sedge
Late coral-root
Broom crowberry
Ram's-head lady's slipper
Wall rue
False mermaid-weed
Dwarf huckleberry
American ginseng
Woodland sunflower
Lizard's tail
Slender muhly
Softhair marbleseed
Rock elm
Pitch pine
Broad beech fern
May apple
Eastern jacob's-ladder
Pinedrops
Douglas' knotweed
Round-leaf groundsel
Fragrant sumac
Bog fern
Marsh valerian
Blunt-lobed cliff fern

### Animal species likely to be designated as threatened or vulnerable

| | |
|---|---|
| Fish | 5 |
| Amphibians | 5 |
| Reptiles | 6 |
| Birds | 8 |
| Mammals | 15 |

# 5 Forest Management

## Highlights

05.00.01

### Allowable annual cut in Québec's forest ($m^3$, 000s)

| | March 31, 2006 |
|---|---|
| Allowable annual cut - public forests (common areas) | 35 199,4 |
| (softwoods : 72.7 %, hardwoods : 27.3 %) | |
| Allowable annual cut - private forests (regional agencies) | 11 968,8 |
| (softwoods : 46.4 %, hardwoods : 53.6 %) | |
| Current volumes (softwoods : 36.9 %, hardwoods : 63.1 %) | 651,6 |
| **Total** | **47 819,8** |

### Surface areas considered in calculating the allowable annual cut in Québec (ha, 000s)

| | | March 31, 2006 |
|---|---|---|
| Productive public forests [1] | - TSFMAs and FMAs | 29 891,8 |
| | - FMCs | 1 671,1 |
| Productive private forests [1] (regional agencies) | | 6 624,6 |
| **Total** | | **38 187,5** |

1. Grades between 0 % and 40 %.

### Volume of timber allocated in Québec's public forests ($m^3$, 000s)

| | March 31, 2006 |
|---|---|
| Timber supply and forest management agreements (TSFMAs) and Forest management agreements (FMAs) | 36 055,7 |
| Forest management contracts (FMCs) | 853,6 |

### Number of common areas and timber supply and forest management agreements

| | March 31, 2006 |
|---|---|
| Common areas | 114 |
| Timber supply and forest management agreements (TSFMAs) and Forest management agreements (FMAs) | 232 |
| Forest management contracts (FMCs) | 89 |

### Volume of timber harvested in Québec in 2005-2006 (m3, 000s)

| | |
|---|---|
| Public forests | 29 537p |
| Private forests (estimate) [1] | 9 079p |
| • Volumes marketed by syndicates and marketing boards | 6 264 |
| **Total** | **38 616** |
| Volumes harvested/allowable annual cut [2] | |
| • Softwoods | 98,6% |
| • Hardwoods | 58,4% |
| **Total** | **81,9%** |

1. Including approximately 2.0 million $m^3$ of firewood.
2. Allowable annual cut (public and private forests), all species combined.

### Size of cutting areas in Québec 2005-2006 (ha, 000s)

| | |
|---|---|
| Public forests | 321,2 |
| Private forests (estimate) | 85,0 |
| **Total** | **406,2** |
| Total size of cutting areas/productive forest area [1] | 1,06 % |

1. Total area of public and private forests considered in calculating the allowable annual cut.

### Market value of standing trees (public forests, all species combined), based on the mean provincial unit rate

| | ($/m^3$) |
|---|---|
| 2003-2004 | 11,13 |
| 2004-2005 | 12,81 |
| 2005-2006 | 12,82 |

### Relative share of transportation methods used for Québec's lumber exports

| | 2004-2005 | 2005-2006p |
|---|---|---|
| Rail | 41,1 % | 37,4 % |
| Truck | 56,6 % | 60,2 % |
| Ship | 2,3 % | 2,4 % |
| **Total** | **100 %** | **100 %** |

### Network of permanent forest roads in Québec in 2005-2006

| | |
|---|---|
| Length (km) | 16700e |
| Bridges (no.) | 590e |

### Québec's production of seedlings for reforestation

| | 2004-2005 | 2005-2006 |
|---|---|---|
| Cones harvested (hl) | 1530,9p | 1 584,9p |
| Area of seed tree orchards (ha) | 1 349,4p | 1 284,0p |
| Seedlings produced (000s) | 135 995,0p | 127 944,0p |
| • MRNF nurseries | 35 632,0p | 34 343,0p |
| • Privately owned nurseries | 100 363,0p | 93 601,0p |

### Reforestation in Québec

| | | (seedlings, 000s) | (ha, 000s) |
|---|---|---|---|
| Public forests | 2002-2003r | 109 542 | 78,7 |
| | 2003-2004r | 83 102 | 60,5 |
| | 2004-2005p | 74 020 | 52,2 |
| Private forests | 2002-2003r | 26 311 | 12,0 |
| | 2003-2004r | 23 486 | 10,7 |
| | 2004-2005p | 21 972 | 10,1 |
| Total | 2002-2003r | 135 853 | 88,6 |
| | 2003-2004r | 106 588 | 71,1 |
| | 2004-2005p | 95 992 | 62,3 |

# 5 Forest Management
## Highlights (cont'd)

05.00.01

### Site preparation in Québec's forests (ha, 000s)

| | | |
|---|---|---|
| Public forests | 2002-2003r | 52,9 |
| | 2003-2004r | 46,4 |
| | 2004-2005p | 41,8 |
| Private forests | 2002-2003r | 9,1 |
| | 2003-2004r | 9,0 |
| | 2004-2005p | 8,2 |
| Total | 2002-2003r | 62,0 |
| | 2003-2004r | 55,4 |
| | 2004-2005p | 49,9 |

### Noncommercial silvicultural treatments carried out in Québec [1] (ha, 000s)

| | | |
|---|---|---|
| Public forests | 2002-2003r | 116,0 |
| | 2003-2004r | 105,4 |
| | 2004-2005p | 102,2 |
| Private forests | 2002-2003r | 17,5 |
| | 2003-2004r | 16,8 |
| | 2004-2005p | 19,0 |
| Total | 2002-2003r | 133,4 |
| | 2003-2004r | 122,2 |
| | 2004-2005p | 121,3 |

### Commercial silvicultural treatments carried out in Québec [1] (ha, 000s)

| | | |
|---|---|---|
| Public forests | 2002-2003r | 330,1 |
| | 2003-2004r | 250,0 |
| | 2004-2005p | 271,3 |
| Private forests | 2002-2003r | 10,0 |
| | 2003-2004r | 9,8 |
| | 2004-2005p | 11,9 |
| Total | 2002-2003r | 340,1 |
| | 2003-2004r | 259,8 |
| | 2004-2005p | 283,1 |

### Silvicultural treatments planned in Québec forests to achieve fixed yields (ha, 000s/year)

| | |
|---|---|
| Common areas [1] | 670,9 |
| Regional agencies for private forest development [2] | 67,4 |

1. Silvicultural treatments planned in the public forests, 2005-2006.

2. Silvicultural treatments planned in the private forests, 2000-2006.

### Silvicultural treatments carried out in Québec (ha, 000s)

| | | |
|---|---|---|
| Public forests | 2002-2003r | 575,6 |
| | 2003-2004r | 472,2 |
| | 2004-2005r | 466,3 |
| | 2005-2006p | 546,4 |
| Private forests | 2002-2003r | 48,7 |
| | 2003-2004r | 46,4 |
| | 2004-2005rp | 49,2 |
| | 2005-2006p | 49,0 |
| Total | 2002-2003r | 624,3 |
| | 2003-2004r | 518,6 |
| | 2004-2005r | 515,5 |
| | 2005-2006p | 595,4 |

# 5 Forest management

## Allowable annual cut

The allowable annual cut was calculated for public forests (areas covered by common areas) (37.4 million ha) and for small and large private holdings (6.6 million ha).

### Allowable annual cut by administrative region [1] on March 31, 2006 (public forests - common areas) ($m^3$)

05 01 01

| Administrative regions | Public forests (Common areas) | | | | | Forest reserves [2] | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fir, spruce, jack pine, larch | Other softwoods | Poplars | Other hardwoods | Subtotal | Fir, spruce, jack pine, larch | Other softwoods | Poplars | Other hardwoods | Subtotal | |
| 01 Bas-Saint-Laurent | 744 735 | 40 116 | 104 392 | 228 598 | 1 117 841 | - | - | - | - | - | - |
| 02 Saguenay—Lac-Saint-Jean | 5 972 808 | 4 368 | 613 817 | 906 152 | 7 497 146 | - | - | - | - | - | - |
| 03 Capitale-Nationale | 686 203 | 8 256 | 94 347 | 257 987 | 1 046 794 | - | - | - | - | - | - |
| 04 Mauricie | 2 091 249 | 52 603 | 451 384 | 970 617 | 3 565 853 | - | - | - | - | - | - |
| 05 Estrie | 25 778 | 2 512 | 5 647 | 40 800 | 74 737 | - | - | - | - | - | - |
| 06 Montréal | | | | | | - | - | - | - | - | - |
| 07 Outaouais | 652 423 | 539 607 | 410 918 | 1 539 561 | 3 142 508 | - | - | - | - | - | - |
| 08 Abitibi-Témiscamingue | 2 740 618 | 420 039 | 662 844 | 1 319 929 | 5 143 430 | - | - | - | - | - | - |
| 09 Côte-Nord | 3 885 808 | 665 | 262 290 | 407 250 | 4 556 013 | - | - | - | - | - | - |
| 10 Nord-du-Québec | 3 987 513 | | 450 981 | 233 230 | 4 671 724 | - | - | - | - | - | - |
| 11 Gaspésie—Îles-de-la-Madeleine | 1 219 885 | 34 696 | 136 489 | 127 536 | 1 518 606 | - | - | - | - | - | - |
| 12 Chaudière-Appalaches | 124 644 | 16 832 | 23 195 | 51 315 | 215 985 | - | - | - | - | - | - |
| 13 Laval | | | | | | - | - | - | - | - | - |
| 14 Lanaudière | 430 038 | 29 801 | 149 278 | 358 331 | 967 448 | - | - | - | - | - | - |
| 15 Laurentides | 519 260 | 112 650 | 129 020 | 919 240 | 1 680 169 | - | - | - | - | - | - |
| 16 Montérégie | | | | | | - | - | - | - | - | - |
| 17 Centre-du-Québec | 573 | 46 | 46 | 498 | 1 162 | - | - | - | - | - | - |
| **Total** | **23 081 536** | **1 262 190** | **3 494 647** | **7 361 042** | **35 199 415** | - | - | - | - | - | - |

### Allowable annual cut [3] by administrative region [4] on March 31, 2006 (private forests) ($m^3$)

| Administrative regions | Allowable annual cut | | | | | Current volumes | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fir, spruce, jack pine, larch | Other softwoods | Poplars | Other hardwoods | Subtotal | Fir, spruce, jack pine, larch | Other softwoods | Poplars | Other hardwoods | Subtotal | |
| 01 Bas-Saint-Laurent | 808 550 | 60 700 | 373 900 | 316 200 | 1 559 350 | 25 800 | 28 300 | 172 100 | 92 800 | 319 000 | 1 878 350 |
| 02 Saguenay—Lac-Saint-Jean | 303 800 | 3 600 | 191 600 | 81 800 | 580 800 | | | | | | 580 800 |
| 03 Capitale-Nationale | 393 000 | 38 500 | 158 400 | 370 000 | 959 900 | | | | | | 959 900 |
| 04 Mauricie | 457 700 | 33 900 | 71 200 | 253 900 | 816 700 | | | | | | 816 700 |
| 05 Estrie | 494 100 | 132 200 | 127 500 | 555 000 | 1 308 800 | 6 000 | 30 400 | | 19 600 | 56 000 | 1 364 800 |
| 06 Montréal | | | | | | | | | | | |
| 07 Outaouais | 172 600 | 220 600 | 269 000 | 557 500 | 1 219 700 | | | | | | 1 219 700 |
| 08 Abitibi-Témiscamingue | 233 400 | 15 700 | 521 400 | 74 100 | 844 600 | | | | | | 844 600 |
| 09 Côte-Nord | 113 300 | 1 300 | 51 900 | 31 600 | 198 100 | | | | | | 198 100 |
| 10 Nord-du-Québec | | | | | | | | | | | |
| 11 Gaspésie—Îles-de-la-Madeleine | 259 100 | 19 800 | 110 500 | 136 200 | 525 600 | 19 400 | 28 600 | 29 600 | 35 600 | 113 200 | 638 800 |
| 12 Chaudière-Appalaches | 913 400 | 165 100 | 169 700 | 714 700 | 1 962 900 | 8 000 | 45 000 | 12 000 | | 65 000 | 2 027 900 |
| 13 Laval | | | | | | | | | | | |
| 14 Lanaudière | 88 700 | 28 300 | 38 100 | 158 700 | 313 800 | | | | | | 313 800 |
| 15 Laurentides | 211 300 | 73 600 | 140 400 | 427 000 | 852 300 | 4 600 | 44 300 | 14 100 | 35 400 | 98 400 | 950 700 |
| 16 Montérégie | 36 300 | 66 200 | 30 000 | 283 900 | 416 400 | | | | | | 416 400 |
| 17 Centre-du-Québec | 154 400 | 57 800 | 58 000 | 139 600 | 409 800 | | | | | | 409 800 |
| **Total** | **4 639 650** | **917 300** | **2 311 600** | **4 100 200** | **11 968 750** | **63 800** | **176 600** | **227 800** | **183 400** | **651 600** | **12 620 350** |

1. Volumes are distributed proportionally to the size of common areas located in the region.
2. Data not available at this time.
3. Established by the regional agencies for private forests development as part of the PPDPF
4. Includes small and large private forests and excludes Category 1 lands.

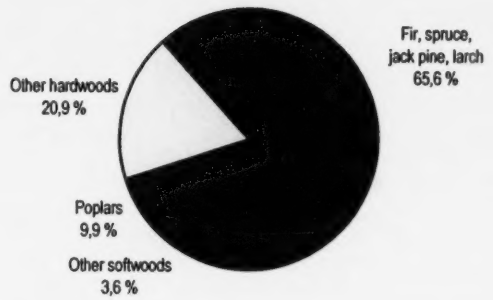
## 5 Forest management

### Allowable annual cut (cont'd)

**Breakdown of allowable annual cut by species in 2006**

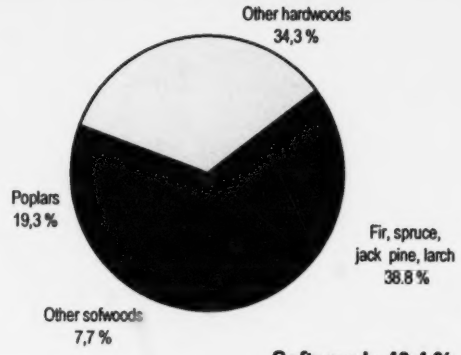
05.01.02

Public forests (allowable annual cut in common areas)




05.01.03

Private forests (allowable annual cut in agency territories)




**Softwoods 46,4 %**

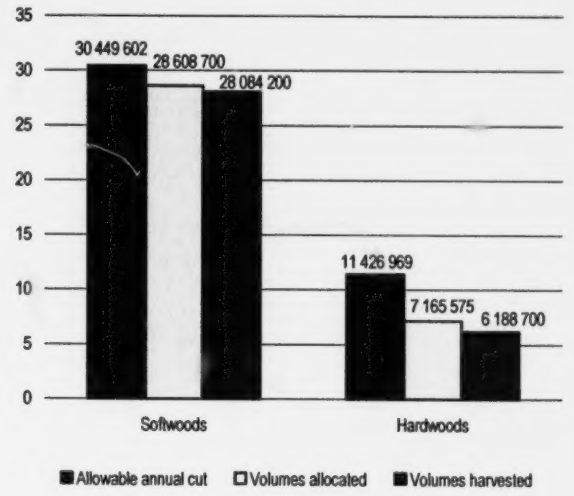
# 5 Forest Management

## Allowable annual cut (cont'd)

### Allowable annual cut/volumes allocated (common areas)/volumes harvested (public forests)

**By species group, 2004-2005**

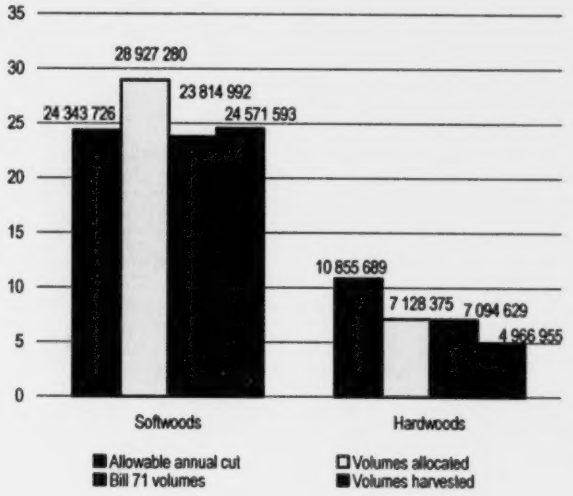
($m^3$, million)




**By species group, 2005-2006**

($m^3$, million)

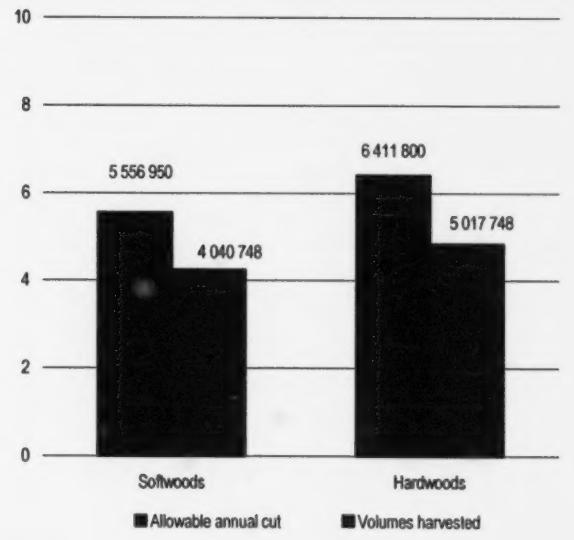
05 01 10




### Allowable annual cut/volumes harvested [1] (private forests)

**By species group, 2004-2005**

($m^3$, million)



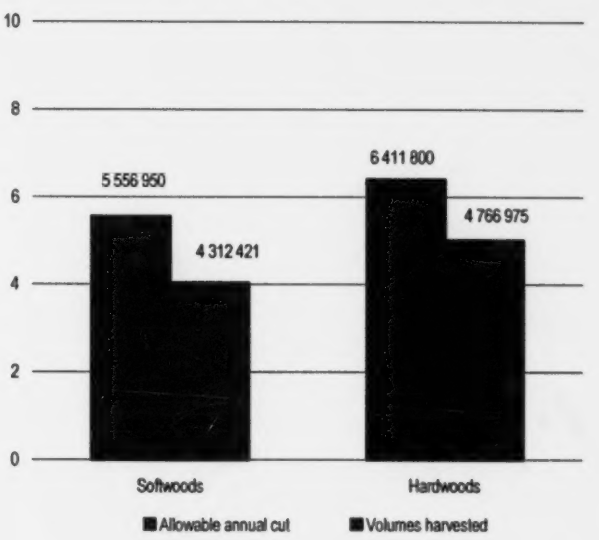

1. Including an estimated volume of firewood (1.9 million $m^3$ of hardwoods).

### Allowable annual cut/volumes harvested [1] (private fores

**By species group, 2005-2006**

($m^3$, million)

05 01 11




1. Including an estimated volume of firewood (1.9 million $m^3$ of hardwoods).

# 5 Forest management

## Harvest

## Volume of timber harvested in public and private forests

05.02.01

### A) By tenure and species group

| | 2001-2002 | | 2002-2003 | | 2003-2004 | | 2004-2005 | | 2005-2006 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Total | | Total | | Total | | Total | |
| | ('000 $m^3$) | (%) | ('000 $m^3$) | (%) | ('000 $m^3$) | (%) | ('000 $m^3$) | (%) | ('000 $m^3$) | (%) |
| **Total** | **40 157** | **100** | **41 175** | **100** | **39 899** | **100** | **43 332** | **100** | **38 616p** | **100** |
| Softwoods | 29 826 | 74 | 31 261 | 76 | 29 430 | 74 | 32 125 | 74 | 28 883p | 75 |
| Hardwoods | 10 331 | 26 | 9 914 | 24 | 10 469 | 26 | 11 207 | 26 | 9 734p | 25 |
| **Québec public lands** [1] | **30 306** | **100** | **31 288** | **100** | **30 814** | **100** | **34 273** | **100** | **29 537p** | **100** |
| Softwoods | 25 139 | 83 | 26 481 | 85 | 25 186 | 82 | 28 084 | 82 | 24 571p | 83 |
| Hardwoods | 5 167 | 17 | 4 807 | 15 | 5 628 | 18 | 6 189 | 18 | 4 967p | 17 |
| **Private holdings** [2] | **9 851** | **100** | **9 887** | **100** | **9 085** | **100** | **9 059** | **100** | **9 079** | **100** |
| Softwoods | 4 687 | 48 | 4 780 | 48 | 4 244 | 47 | 4 041 | 45 | 4 312 | 47 |
| Hardwoods | 5 164 | 52 | 5 107 | 52 | 4 841 | 53 | 5 018 | 55 | 4 767 | 53 |

1. Volume of timber harvested and actually measured in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities wildlife and leisure developments, etc.).
2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million $m^3$), but excluding small volumes of roundwood harvested for export.

# 5 Forest management

## Harvest (cont'd)

## Volume of timber harvested in public and private forests (cont'd)

### B) By administrative region ($m^3$, 000s)

### 2003-2004

05 02 02

| Administrative regions | Public forests[1] | | | | | | Private forests[2] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fir, spruce, jack pine, larch | Other softwoods | Total softwoods | Poplars | Other hardwoods | Total hardwoods | Fir, spruce, jack pine, larch | Other softwoods | Total softwoods | Poplars | Other hardwoods | Total hardwoods |
| 01 Bas-Saint-Laurent | 886,0 | 27,6 | 913,6 | 104,3 | 217,8 | 322,1 | 620,5 | 79,3 | 699,8 | 422,0 | 283,2 | 705,1 |
| 02 Saguenay—Lac-Saint-Jean | 7 341,0 | 0,8 | 7 341,9 | 376,7 | 420,4 | 797,1 | 304,2 | 0,4 | 304,5 | 62,4 | 44,3 | 106,8 |
| 03 Capitale-Nationale | 520,0 | 0,9 | 520,9 | 41,7 | 64,7 | 106,4 | 296,5 | 14,6 | 311,1 | 78,1 | 219,7 | 297,8 |
| 04 Mauricie | 2 608,9 | 35,7 | 2 644,5 | 359,3 | 408,6 | 767,9 | 443,4 | 28,1 | 471,4 | 15,4 | 144,3 | 159,8 |
| 05 Estrie | 14,0 | 0,6 | 14,6 | 8,3 | 29,7 | 38,0 | 429,2 | 98,7 | 527,9 | 120,5 | 530,6 | 651,1 |
| 06 Montréal | - | - | - | - | - | - | - | - | - | - | - | - |
| 07 Outaouais | 396,9 | 305,1 | 702,0 | 337,3 | 717,4 | 1 054,7 | 97,9 | 113,7 | 211,6 | 244,4 | 406,0 | 650,4 |
| 08 Abitibi-Témiscamingue | 2 803,5 | 66,3 | 2 869,9 | 554,1 | 267,7 | 821,8 | 166,4 | 2,6 | 169,0 | 295,4 | 19,6 | 315,0 |
| 09 Côte-Nord | 3 160,1 | - | 3 160,1 | 14,9 | 10,6 | 25,6 | 80,5 | 0,4 | 80,8 | 13,4 | 7,3 | 20,6 |
| 10 Nord-du-Québec | 4 372,1 | - | 4 372,1 | 324,7 | 5,2 | 329,8 | - | - | - | - | - | - |
| 11 Gaspésie—Îles-de-la-Madeleine | 1 325,8 | 26,3 | 1 352,1 | 120,8 | 127,4 | 248,2 | 95,2 | 29,6 | 124,9 | 71,0 | 57,0 | 128,1 |
| 12 Chaudière-Appalaches | 150,6 | 9,9 | 160,5 | 20,0 | 36,1 | 56,1 | 737,0 | 94,6 | 831,6 | 165,2 | 489,0 | 654,2 |
| 13 Laval | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 Lanaudière | 525,7 | 10,9 | 536,5 | 193,7 | 260,1 | 453,8 | 60,8 | 26,2 | 87,0 | 34,5 | 146,4 | 180,9 |
| 15 Laurentides | 559,2 | 38,1 | 597,3 | 79,1 | 527,4 | 606,5 | 139,1 | 34,1 | 173,3 | 113,5 | 343,2 | 456,7 |
| 16 Montérégie | - | - | - | - | - | - | 17,3 | 25,9 | 43,3 | 38,8 | 239,9 | 278,7 |
| 17 Centre-du-Québec | - | - | - | - | - | - | 169,6 | 37,9 | 207,4 | 37,5 | 198,7 | 236,2 |
| **Total** | **24 664,0** | **522,2** | **25 186,2** | **2 534,8** | **3 093,2** | **5 628,0** | **3 657,6** | **586,1** | **4 243,7** | **1 712,1** | **3 129,4** | **4 841,5** |

1. Volume of timber harvested and scaled in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).
2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million $m^3$), but excluding small volumes of roundwood harvested for export.

### 2004-2005

05 02 03

| Administrative regions | Public forests[1] | | | | | | Private forests[2] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fir, spruce, jack pine, larch | Other softwoods | Total softwoods | Poplars | Other hardwoods | Total hardwoods | Fir, spruce, jack pine, larch | Other softwoods | Total softwoods | Poplars | Other hardwoods | Total hardwoods |
| 01 Bas-Saint-Laurent | 956,4 | 41,7 | 998,1 | 105,2 | 233,1 | 338,3 | 571,3 | 65,0 | 636,3 | 444,7 | 273,3 | 718,0 |
| 02 Saguenay—Lac-Saint-Jean | 7 325,8 | 0,2 | 7 326,0 | 447,4 | 483,5 | 930,9 | 214,6 | 1,1 | 215,7 | 149,9 | 53,3 | 203,2 |
| 03 Capitale-Nationale | 648,9 | 1,8 | 650,7 | 45,5 | 87,9 | 133,4 | 345,3 | 16,3 | 361,6 | 83,9 | 222,3 | 306,2 |
| 04 Mauricie | 3 350,9 | 38,1 | 3 389,0 | 439,2 | 603,1 | 1 042,4 | 264,4 | 15,6 | 279,9 | 24,8 | 194,1 | 218,9 |
| 05 Estrie | 23,7 | 0,7 | 24,4 | 3,9 | 56,3 | 60,2 | 486,8 | 73,8 | 560,5 | 139,3 | 492,5 | 631,7 |
| 06 Montréal | - | - | - | - | - | - | - | - | - | - | - | - |
| 07 Outaouais | 458,7 | 255,0 | 713,7 | 326,9 | 758,3 | 1 085,2 | 118,3 | 114,4 | 232,6 | 257,4 | 410,4 | 667,8 |
| 08 Abitibi-Témiscamingue | 3 324,4 | 132,2 | 3 456,6 | 431,7 | 377,9 | 809,5 | 177,5 | 0,1 | 177,6 | 302,1 | 19,3 | 321,5 |
| 09 Côte-Nord | 3 938,6 | - | 3 938,6 | 24,5 | 12,1 | 36,6 | 145,1 | 0,4 | 145,4 | 16,6 | 8,6 | 25,1 |
| 10 Nord-du-Québec | 4 558,5 | - | 4 558,5 | 288,3 | 9,0 | 297,3 | - | - | - | - | - | - |
| 11 Gaspésie—Îles-de-la-Madeleine | 1 394,0 | 21,6 | 1 415,6 | 155,0 | 151,1 | 306,1 | 104,8 | 29,1 | 133,9 | 104,3 | 60,0 | 164,3 |
| 12 Chaudière-Appalaches | 160,4 | 11,2 | 171,7 | 15,6 | 35,2 | 50,7 | 801,4 | 85,1 | 886,5 | 156,8 | 486,4 | 643,2 |
| 13 Laval | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 Lanaudière | 699,1 | 22,3 | 721,3 | 110,6 | 245,0 | 355,5 | 48,7 | 16,7 | 65,4 | 33,5 | 144,1 | 177,5 |
| 15 Laurentides | 673,6 | 46,4 | 720,0 | 131,4 | 610,9 | 742,3 | 104,1 | 23,4 | 127,6 | 121,2 | 352,4 | 473,5 |
| 16 Montérégie | - | - | - | - | 0,1 | 0,1 | 10,9 | 11,8 | 22,7 | 34,6 | 220,2 | 254,8 |
| 17 Centre-du-Québec | - | - | - | - | - | - | 159,0 | 36,0 | 195,0 | 32,3 | 179,7 | 212,0 |
| **Total** | **27 513,1** | **571,1** | **28 084,2** | **2 525,2** | **3 663,5** | **6 188,7** | **3 552,0** | **488,7** | **4 040,7** | **1 901,2** | **3 116,5** | **5 017,7** |

1. Volume of timber harvested and actually measured in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).
2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million $m^3$), but excluding small volumes of roundwood harvested for export.

# 5 Forest management

## Harvest (cont'd)

## Volume of timber harvested in public and private forests (cont'd)

### B) By administrative region ($m^3$, 000s) (cont'd)

**2005-2006**

05.02.04

| Administrative regions | Public forests[1] | | | | | | Private forests[2] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fir, spruce, jack pine, larch | Other softwoods | Total softwoods | Poplars | Other hardwoods | Total hardwoods | Fir, spruce, jack pine, larch | Other softwoods | Total softwoods | Poplars | Other hardwoods | Total hardwoods |
| 01 Bas-Saint-Laurent | 744,2p | 28,5p | 772,6p | 100,0p | 170,6p | 270,6p | 488,9p | 69,0p | 557,9p | 424,4p | 236,9p | 661,3p |
| 02 Saguenay—Lac-Saint-Jean | 7 491,0p | 1,1p | 7 492,0p | 383,2p | 413,7p | 797,0p | 473,9p | 5,0p | 478,9p | 181,1p | 74,9p | 255,9p |
| 03 Capitale-Nationale | 676,0p | 1,2p | 677,2p | 40,8p | 98,5p | 139,3p | 300,1p | 10,1p | 310,2p | 16,0p | 169,6p | 185,6p |
| 04 Mauricie | 2 145,1p | 30,4p | 2 175,5p | 344,4p | 325,9p | 670,4p | 593,8p | 19,0p | 612,8p | 57,9p | 94,0p | 151,9p |
| 05 Estrie | 29,2p | 1,0p | 30,2p | 4,4p | 36,4p | 40,8p | 292,4p | 82,4p | 374,8p | 232,7p | 700,6p | 933,2p |
| 06 Montréal | - | - | - | - | - | - | - | - | - | - | - | - |
| 07 Outaouais | 488,1p | 140,5p | 628,7p | 309,6p | 491,7p | 801,3p | 69,5p | 114,6p | 184,0p | 261,6p | 463,2p | 724,8p |
| 08 Abitibi-Témiscamingue | 2 571,3p | 82,2p | 2 653,5p | 494,7p | 259,2p | 753,9p | 203,2p | 1,1p | 204,4p | 298,9p | 39,9p | 338,9p |
| 09 Côte-Nord | 3 872,9p | - | 3 872,9p | 44,7p | 20,1p | 64,9p | 72,7p | 0,1p | 72,7p | 4,0p | 15,9p | 19,9p |
| 10 Nord-du-Québec | 3 831,3p | - | 3 831,3p | 261,2p | 10,8p | 272,0p | 38,6p | - | - | - | - | - |
| 11 Gaspésie—Îles-de-la-Madeleine | 1 112,7p | 23,5p | 1 136,2p | 128,7p | 73,5p | 202,2p | 308,2p | 16,6p | 324,8p | 22,6p | 35,9p | 58,5p |
| 12 Chaudière-Appalaches | 119,5p | 8,8p | 128,4p | 23,3p | 36,6p | 59,9p | 802,4p | 139,7p | 942,1p | 96,4p | 380,2p | 476,5p |
| 13 Laval | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 Lanaudière | 568,2p | 12,4p | 580,6p | 118,7p | 194,8p | 313,5p | 65,6p | 19,8p | 85,4p | 63,4p | 134,0p | 197,4p |
| 15 Laurentides | 558,4p | 33,1p | 591,5p | 93,7p | 487,1p | 580,9p | 85,2p | 14,9p | 100,0p | 12,9p | 289,4p | 302,3p |
| 16 Montérégie | - | - | - | - | - | - | 1,8p | 12,3p | 14,1p | 1,5p | 226,6p | 228,1p |
| 17 Centre-du-Québec | - | - | - | - | - | - | 6,6p | 5,1p | 11,6p | 3,1p | 229,6p | 232,7p |
| **Total** | **24 208,0p** | **362,6p** | **24 570,6p** | **2 347,4p** | **2 619,1p** | **4 966,6p** | **3 802,8p** | **509,7p** | **4 273,8p** | **1 676,3p** | **3 090,7p** | **4 767,0p** |

1. Volume of timber harvested and actually measured in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).

2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million $m^3$), but excluding small volumes of roundwood harvested for export and volumes delivered to mills of 2 000 $m^3$ and less.

# 5 Forest management

## Forest dues

### Market value of standing timber in public forests, by quality and mean provincial unit rates, 2003-2004 and 2004-2005 ($/m$^3$)

05.03.06

| Species group | Quality [2] | Fiscal year (Period) [1] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2003-2004 | | | | | 2004-2005 | | | | |
| | | 1st per. | 2nd per. | 3rd per. | 4th per. | Mean | 1st per. | 2nd per. | 3rd per. | 4th per. | Mean |
| Jack Pine | F (pole) | 18,03 | 18,03 | 18,03 | 18,03 | 18,03 | 17,53 | 17,53 | 17,56 | 17,56 | 17,55 |
| Fir, spruce, jack pine, larch | B (saw timbrer, pulp) | 12,38 | 11,78 | 11,58 | 11,89 | 11,91 | 12,10 | 13,27 | 14,89 | 14,49 | 13,69 |
| White pine | G (saw timber) | 23,53 | 23,30 | 23,63 | 23,70 | 23,54 | 17,86 | 18,56 | 18,77 | 18,81 | 18,50 |
| | H (saw timber) | 15,65 | 15,50 | 15,72 | 15,77 | 15,66 | 11,49 | 11,94 | 12,08 | 12,10 | 11,90 |
| | I (saw timber) | 14,18 | 14,04 | 14,24 | 14,28 | 14,18 | 10,34 | 10,75 | 10,87 | 10,89 | 10,71 |
| Red pine | F (pole) | 24,50 | 24,50 | 24,50 | 24,50 | 24,50 | 24,79 | 24,79 | 24,84 | 24,84 | 24,82 |
| | G (saw timber) | 17,40 | 17,23 | 17,47 | 17,53 | 17,41 | 13,60 | 14,14 | 14,29 | 14,32 | 14,09 |
| | H (saw timber) | 11,63 | 11,52 | 11,68 | 11,71 | 11,63 | 8,62 | 8,96 | 9,06 | 9,07 | 8,93 |
| | I (saw timber) | 10,59 | 10,49 | 10,64 | 10,67 | 10,60 | 7,96 | 8,28 | 8,37 | 8,39 | 8,25 |
| Hemlock, thuja | B (saw timber) | 3,11 | 2,93 | 2,89 | 3,01 | 2,99 | 2,97 | 3,29 | 3,77 | 3,68 | 3,43 |
| White and red pine, hemlock, thuja | C (pulp) | 2,02 | 1,92 | 1,88 | 1,95 | 1,94 | 1,83 | 2,02 | 2,29 | 2,22 | 2,09 |
| Oak, cherry, walnut, hickory | A (peeling) | 60,63 | 58,95 | 57,01 | 56,56 | 58,29 | 55,64 | 56,07 | 56,38 | 54,84 | 55,73 |
| | B (saw timber) | 30,32 | 30,34 | 29,84 | 31,46 | 30,49 | 33,97 | 34,15 | 33,08 | 32,50 | 33,43 |
| | C (saw timber) | 11,79 | 11,80 | 11,60 | 12,23 | 11,85 | 13,80 | 13,88 | 13,44 | 13,21 | 13,58 |
| Yellow birch, ash, | A (peeling) | 57,01 | 55,44 | 53,62 | 53,19 | 54,82 | 55,22 | 55,65 | 55,95 | 54,43 | 55,31 |
| basswood, elm | B (saw timber) | 24,09 | 24,11 | 23,71 | 24,99 | 24,22 | 26,65 | 26,79 | 25,95 | 25,50 | 26,22 |
| | C (saw timber) | 8,70 | 8,71 | 8,56 | 9,03 | 8,75 | 10,47 | 10,52 | 10,19 | 10,01 | 10,30 |
| White birch | A (peeling) | 41,90 | 40,74 | 39,41 | 39,09 | 40,29 | 43,20 | 43,53 | 43,77 | 42,58 | 43,27 |
| | B (saw timber) | 16,27 | 16,28 | 16,01 | 16,88 | 16,36 | 17,01 | 17,10 | 16,57 | 16,27 | 16,74 |
| | C (saw timber) | 5,63 | 5,63 | 5,54 | 5,84 | 5,66 | 6,00 | 6,03 | 5,84 | 5,74 | 5,90 |
| Sugar Maple | B (saw timber) | 26,58 | 25,82 | 25,03 | 24,14 | 25,39 | 26,81 | 27,21 | 28,23 | 27,50 | 27,44 |
| | C (saw timber) | 6,28 | 6,10 | 5,92 | 5,70 | 6,00 | 6,41 | 6,51 | 6,75 | 6,58 | 6,56 |
| Other hardwoods | B (saw timber) | 10,27 | 10,28 | 10,11 | 10,65 | 10,33 | 11,41 | 11,47 | 11,11 | 10,92 | 11,23 |
| | C (saw timber) | 4,27 | 4,27 | 4,20 | 4,43 | 4,29 | 4,86 | 4,89 | 4,74 | 4,65 | 4,79 |
| Poplars | B (saw timber, pulp) | 5,30 | 5,69 | 8,38 | 11,35 | 7,68 | 8,82 | 11,48 | 9,03 | 7,08 | 9,10 |
| All hardwoods except poplars | D, E (pulp) | 2,95 | 3,11 | 3,49 | 4,19 | 3,44 | 4,09 | 4,59 | 4,11 | 3,70 | 4,12 |
| All species | All qualities | 11,30 | 10,85 | 10,91 | 11,45 | 11,13 | 11,30 | 12,48 | 13,59 | 13,08 | 12,61 |

1. First period, from April 1 to June 30; second period, from July 1 to September 30; third period, from October 1 to December 31; fourth period, from January 1 to March 31.

2. The letters A, B, C, D, E, F, G, H and I correspond to the quality assigned during wood grading based on species, diameter, length, and imperfections observed on the trunk and crosscuts.

# 5 Forest management

## Forest dues (cont'd)

### Market value of standing timber in public forests, by quality and mean provincial unit rates, 2005-2006 ($/m$^3$)

05.03.07

| Species group | Quality [2] | Fiscal year (Period) [1] | | | | |
|---|---|---|---|---|---|---|
| | | 2005-2006 | | | | |
| | | 1st per. | 2nd per. | 3rd per. | 4th per. | Mean |
| Jack pine | F (pole) | 18,44 | 18,44 | 18,49 | 18,44 | 18,45 |
| Fir, spruce, jack pine, larch | B (saw timber, pulp) | 14,48 | 14,47 | 14,00 | 13,52 | 14,12 |
| White pine | G (saw timber) | 27,92 | 27,76 | 27,66 | 26,72 | 27,52 |
| | H (saw timber) | 14,43 | 14,35 | 14,30 | 13,81 | 14,22 |
| | I (saw timber) | 11,05 | 10,99 | 10,94 | 10,57 | 10,89 |
| Red pine | F (pole) | 24,96 | 24,96 | 25,03 | 24,96 | 24,98 |
| | G (saw timber) | 20,66 | 20,54 | 20,46 | 19,76 | 20,35 |
| | H (saw timber) | 10,59 | 10,53 | 10,49 | 10,13 | 10,43 |
| | I (saw timber) | 8,38 | 8,33 | 8,30 | 8,02 | 8,26 |
| Hemlock, thuja | B (saw timber) | 3,47 | 3,45 | 3,32 | 3,19 | 3,35 |
| White pine, red pine, hemlock, thuja | C (pulp) | 2,07 | 2,06 | 1,98 | 1,90 | 2,00 |
| Oak, cherry, walnut, hickory | A (peeling) | 57,94 | 58,45 | 58,20 | 57,31 | 57,98 |
| | B (saw timber) | 29,15 | 28,67 | 28,67 | 28,58 | 28,77 |
| | C (saw timber) | 11,97 | 11,77 | 11,77 | 11,73 | 11,81 |
| Yellow birch, ash, basswood, elm | A (peeling) | 51,44 | 51,89 | 51,67 | 50,88 | 51,47 |
| | B (saw timber) | 21,90 | 21,54 | 21,54 | 21,47 | 21,61 |
| | C (saw timber) | 8,56 | 8,41 | 8,41 | 8,39 | 8,44 |
| White birch | A (peeling) | 41,37 | 41,73 | 41,55 | 40,92 | 41,39 |
| | B (saw timber) | 13,20 | 12,98 | 12,98 | 12,94 | 13,02 |
| | C (saw timber) | 4,78 | 4,70 | 4,70 | 4,68 | 4,71 |
| Sugar maple | B (saw timber) | 25,38 | 25,48 | 25,30 | 25,01 | 25,29 |
| | C (saw timber) | 5,86 | 5,88 | 5,84 | 5,78 | 5,84 |
| Other hardwoods | B (saw timber) | 9,92 | 9,76 | 9,76 | 9,73 | 9,79 |
| | C (saw timber) | 4,26 | 4,19 | 4,19 | 4,18 | 4,21 |
| Poplars | B (saw timber, pulp) | 6,64 | 6,51 | 5,41 | 6,64 | 6,30 |
| All hardwoods (except poplars) | D, E (pulp) | 3,30 | 3,27 | 3,11 | 3,27 | 3,24 |
| All species | All qualities | 13,15 | 13,13 | 12,65 | 12,34 | 12,82 |

1. First period, from April 1 to June 30; second period, from July 1 to September 30; third period, from October 1 to December 31; fourth period, from January 1 to March 31
2. The letters A, B, C, D, E, F, G, H and I correspond to the quality assigned during wood grading based on species, diameter, length, and imperfections observed on the trunk and crosscuts

# 5 Forest management

## Seedling production

### Seedling production (000s) by administrative region [1] and producer category

05.05.05

| Administrative regions | Producers | 2002-2003 | | | 2003-2004 | | | 2004-2005 | | | 2005-2006 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Bareroot | Container | Total | Bareroot | Container | Total | Bareroot | Container | Total | Bareroot | Container | Total |
| 01 Bas-Saint-Laurent | PUN [2] | 7 338 | 9 257 | 16 595 | 7 128 | 6 632 | 13 760 | 8 000 | 7 668 | 15 668 | 6 811 | 7 415 | 14 226 |
| | P&FC [3] | | 10 860 | 10 860 | | 6 756 | 6 756 | | 8 788 | 8 788 | | 5 639 | 5 639 |
| | Total | 7 338 | 20 117 | 27 455 | 7 128 | 13 388 | 20 516 | 8 000 | 16 456 | 24 456 | 6 811 | 13 054 | 19 865 |
| 02 Saguenay—Lac-Saint-Jean | PUN | 3 642 | 2 904 | 6 546 | 3 094 | 2 745 | 5 839 | 2 680 | 2 449 | 5 129 | 2 505 | 3 175 | 5 680 |
| | P&FC | | 21 188 | 21 188 | | 15 780 | 15 780 | | 17 284 | 17 284 | | 19 577 | 19 577 |
| | Total | 3 642 | 19 203 | 27 734 | 3 094 | 19 203 | 21 619 | 2 680 | 19 733 | 22 413 | 2 505 | 22 752 | 25 257 |
| 03 Capitale-Nationale | PUN | | | | | | | | | | | | |
| | P&FC | | 6 014 | 6 014 | | 5 697 | 5 697 | | 4 917 | 4 917 | | 5 347 | 5 347 |
| | Total | | 6 014 | 6 014 | | 5 697 | 5 697 | | 4 917 | 4 917 | | 5 347 | 5 347 |
| 04 Mauricie et 17 Centre-du-Québec | PUN | 1 122 | 2 227 | 3 349 | 1 222 | 1 884 | 3 106 | 1 910 | 2 007 | 3 917 | 1 950 | 2 691 | 4 641 |
| | P&FC | | 15 797 | 15 797 | | 11 439 | 11 439 | | 18 640 | 18 640 | | 11 174 | 11 174 |
| | Total | 1 122 | 18 024 | 19 146 | 1 222 | 13 323 | 14 545 | 1 910 | 20 647 | 22 557 | 1 950 | 13 865 | 15 815 |
| 05 Estrie | PUN | | | | | | | | | | | | |
| | P&FC | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | |
| 07 Outaouais | PUN | | | | | | | | | | | | |
| | P&FC | | 6 439 | 6 439 | | 3 087 | 3 087 | | 3 719 | 3 719 | | 2 860 | 2 860 |
| | Total | | 6 439 | 6 439 | | 3 087 | 3 087 | | 3 719 | 3 719 | | 2 860 | 2 860 |
| 08 Abitibi-Témiscamingue | PUN | 1 785 | 5 917 | 7 702 | 1 789 | 3 566 | 5 355 | 1 038 | 4 354 | 5 392 | 925 | 3 812 | 4 737 |
| | P&FC | | 24 320 | 24 320 | | 22 289 | 22 289 | | 27 294 | 27 294 | | 25 350 | 25 350 |
| | Total | 1 785 | 30 237 | 32 022 | 1 789 | 25 855 | 27 644 | 1 038 | 31 648 | 32 686 | 925 | 29 162 | 30 087 |
| 09 Côte-Nord | PUN | | | | | | | | | | | | |
| | P&FC | | 11 783 | 11 783 | | 10 865 | 10 865 | | 7 285 | 7 285 | | 6 619 | 6 619 |
| | Total | | 11 783 | 11 783 | | 10 865 | 10 865 | | 7 285 | 7 285 | | 6 619 | 6 619 |
| 11 Gaspésie—Îles-de-la-Madeleine | PUN | | | | | | | | | | | | |
| | P&FC | | 4 787 | 4 787 | | 4 438 | 4 438 | | 2 185 | 2 185 | | 4 508 | 4 508 |
| | Total | | 4 787 | 4 787 | | 4 438 | 4 438 | | 2 185 | 2 185 | | 4 508 | 4 508 |
| 12 Chaudière-Appalaches | PUN | | | | | | | | | | | | |
| | P&FC | 2 291 | 5 384 | 7 675 | 1 080 | 3 917 | 4 997 | | 4 083 | 4 083 | | 1 535 | 1 535 |
| | Total | 2 291 | 5 384 | 7 675 | 1 080 | 3 917 | 4 997 | | 4 083 | 4 083 | | 1 535 | 1 535 |
| 14 Lanaudière | PUN | 2 145 | 3 771 | 5 916 | 2 415 | 2 827 | 5 242 | 2 604 | 2 922 | 5 526 | 2 344 | 2 715 | 5 059 |
| | P&FC | | | | | | | | | | | | |
| | Total | 2 145 | 3 771 | 5 916 | 2 415 | 2 827 | 5 242 | 2 604 | 2 922 | 5 526 | 2 344 | 2 715 | 5 059 |
| 15 Laurentides | PUN | | | | | | | | | | | | |
| | P&FC | | 12 533 | 12 533 | | 18 806 | 18 806 | | 6 168 | 6 168 | | 10 992 | 10 992 |
| | Total | | 12 533 | 12 533 | | 18 806 | 18 806 | | 6 168 | 6 168 | | 10 992 | 10 992 |
| Total | PUN | 16 032 | 24 076 | 40 108 | 15 648 | 17 654 | 33 302 | 16 232 | 19 400 | 35 632 | 14 535 | 19 808 | 34 343 |
| | P&FC | 2 291 | 119 105 | 121 396 | 1 080 | 103 074 | 104 154 | | 100 363 | 100 363 | | 93 601 | 93 601 |
| | Total | 18 323 | 143 181 | 161 504 | 16 728 | 120 728 | 137 456 | 16 232 | 119 763 | 135 995 | 14 535 | 113 409 | 127 944 |

1. There is no seedling production in regions 06 (Montréal), 10 (Nord-du-Québec), 13 (Laval) and 16 (Montérégie).
2. PUN: Public nurseries.
3. P&FC: Private producers and forest companies.

# 5 Forest management

## Summary of silvicultural treatments carried out

### A) Public forests

| Type of treatments | | Area (2000-2001) [1] | | | | | Area (2001-2002) [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TSFMA | | MRNF | | Total | TSFMA [2] | | MRNF [3] | | Total |
| | | (ha) | (%) | (ha) | (%) | (ha) | (ha) | (%) | (ha) | (%) | (ha) |
| Site preparation | | | | | | | | | | | |
| 1) Scarifying | | 47 213r | 100,0 | | | 47 213r | 43 953r | 100,0 | 13r | 0,0 | 43 966r |
| 2) Clearing | | 9 073r | 100,0 | | | 9 073r | 5 576r | 99,8 | 13r | 0,2 | 5 589r |
| 3) Brushing | | 6r | 9,2 | 59r | 90,8 | 65r | 2r | 4,8 | 40r | 95,2 | 42r |
| 4) Harrowing | | | | | | | | | | | |
| 5) Controlled burning | | | | | | | 2r | 100,0 | | | 2r |
| 6) Removal of residual stems | | 408r | 100,0 | | | 408r | 672r | 45,2 | 815r | 199,9 | 1 487r |
| Total | | 56 700r | 99,9 | 59r | 0,1 | 56 759r | 50 209r | 98,3 | 881r | 1,7 | 51 083r |
| Reforestation and seeding | | | | | | | | | | | |
| 1) Planting | (ha) | 47 955r | 100,0 | | | 47 955r | 42 844r | 99,2 | 331r | 0,8 | 43 176r |
| | (Seedlings, million) | 84r | 100,0 | | | 84r | 74r | 99,1 | 1r | 0,9 | 74r |
| 2) Reinforcement | (ha) | 16 120r | 100,0 | | | 16 120r | 25 567r | 99,4 | 161r | 0,6 | 25 728r |
| | (Seedlings, million) | 17r | 100,0 | | | 17r | 24r | 98,7 | 0r | 1,3 | 24r |
| 3) Enrichment | (ha) | 2 437r | 100,0 | | | 2 437r | 648r | 100,0 | | | 648r |
| | (Seedlings, million) | 1r | 100,0 | | | 1r | 0r | 100,0 | | | 0r |
| 4) Regeneration of SBBA [4] | Natural (ha) | | | | | | | | | | |
| | Artificial (ha) | 10 519r | 100,0 | | | 10 519r | 12 129r | 100,0 | | | 12 129r |
| | (Seedlings, million) | 12r | 100,0 | | | 12r | 12r | 100,0 | | | 12r |
| 5) Seeding | (ha) | 136r | 100,0 | | | 136r | | | | | |
| Total | (ha) | 77 167r | 100,0 | | | 77 167r | 81 189r | 99,4 | 492r | 0,6 | 81 680r |
| | (Seedlings, million) | 113r | 100,0 | | | 113r | 110r | 99,1 | 1r | 0,9 | 111r |
| Noncommercial treatments | | | | | | | | | | | |
| 1) Release (plantations) | | 19 467r | 99,0 | 193r | 1,0 | 19 660r | 17 309r | 91,5 | 1 611r | 8,5 | 18 920r |
| 2) Release (natural regeneration) | | 2 481r | 96,2 | 96r | 3,8 | 2 557r | 2 348r | 92,4 | 193r | 7,6 | 2 539r |
| 3) Pre-commercial thinning | | 94 254r | 98,2 | 1 708r | 1,8 | 95 962r | 81 196r | 91,9 | 7 128r | 8,1 | 88 324r |
| 4) Phytosanitary control | | 23r | 100,0 | | | 23r | | | | | |
| 5) Fertilization | | | | | | | | | | | |
| 6) Drainage | | 2 791r | 100,0 | | | 2 791r | 2 855r | 100,0 | | | 2 855r |
| Total | | 118 995r | 98,3 | 1 997r | 1,7 | 120 992r | 103 785r | 92,1 | 8 932r | 7,9 | 112 637r |
| Commercial treatments | | | | | | | | | | | |
| 1) a) Cutting with protection of regeneration and soils | | 209 871r | 100,0 | | | 209 871r | 184 308r | 100,0 | | | 184 308r |
| b) Merchantable trees | | 862r | 100,0 | | | 862r | 2 027r | 100,0 | | | 2 027r |
| c) Tall regeneration | | 333r | 100,0 | | | 333r | 64r | 100,0 | | | 64r |
| d) With seed reserve | | 3 069r | 100,0 | | | 3 069r | 2 988r | 100,0 | | | 2 988r |
| Subtotal (CPRS) | | 214 135r | 100,0 | | | 214 135r | 189 388r | 100,0 | | | 189 388r |
| 2) Block cutting | | 20 412r | 100,0 | | | 20 412r | 25 544r | 100,0 | | | 25 544r |
| 3) a) Selection cutting | | 42 040r | 100,0 | | | 42 040r | 41 712r | 100,0 | | | 41 712r |
| b) Pre-selection cutting | | 7 079r | 100,0 | | | 7 079r | 4 967r | 100,0 | | | 4 967r |
| Subtotal | | 49 119r | 100,0 | | | 49 119r | 46 679r | 100,0 | | | 46 679r |
| 4) Improvement cutting | | 2 363r | 100,0 | | | 2 363r | 970r | 100,0 | | | 970r |
| 5) Shelterwood cutting | | 4 191r | 99,9 | 4r | 0,1 | 4 195r | 4 134r | 99,9 | 4r | 0,1 | 4 138r |
| 6) Commercial thinning | | 7 969r | 97,4 | 213r | 2,6 | 8 182r | 7 304r | 97,2 | 213r | 2,8 | 7 517r |
| 7) a) Strip cutting | | 879r | 100,0 | | | 879r | 377r | 100,0 | | | 377r |
| b) Patch cutting | | | | | | 0r | 26r | 100,0 | | | 26r |
| Subtotal | | 879r | 100,0 | | | 879r | 403r | 100,0 | | | 403r |
| 8) Harvesting in buffer strips | | 1 291r | 100,0 | | | 1 291r | 1 858r | 100,0 | | | 1 858r |
| 9) Other methods : | | | | | | | | | | | |
| a) Cutting for reforestation | | 10 602r | 100,0 | | | 10 602r | 12 129r | 100,0 | | | 12 129r |
| b) Clear cutting - SBBA | | 9 890r | 99,3 | 73r | 0,7 | 9 963r | 7 826r | 99,8 | 16r | 0,2 | 7 842r |
| - roads | | 8 843r | 100,0 | | | 8 843r | 9 088r | 100,0 | | | 9 088r |
| c) Salvage cutting - special plans 5 | | 6 318r | 100,0 | | | 6 318r | 5 107r | 100,0 | | | 5 107r |
| d) Other methods | | 4 173r | 100,0 | | | 4 173r | 5 797r | 99,0 | 57r | 1,0 | 5 854r |
| Subtotal | | 39 825r | 99,8 | 73r | 0,2 | 39 898r | 39 947r | 99,8 | 73r | 0,2 | 40 020r |
| 10) Treatments carried out under the resource development program | | 2 574r | 100,0 | | | 2 574r | 1 173r | 45,6 | | | 1 173r |
| Total | | 342 758r | 99,9 | 286r | 0,1 | 343 044r | 317 399r | 99,9 | 286r | 0,1 | 317 686r |
| Grand total | | 595 620r | 99,6 | 2 344r | 0,4 | 597 965r | 552 497r | 98,1 | 10 596r | 1,9 | 563 093r |

1. Updated May 2, 2006.
2. TSFMA : Timber supply and forest management agreement holders.
3. MRNF : Ministère des Ressources naturelles et de la Faune.
4. SBBA : stacking, branching and bucking area.
5. Areas disturbed by natural disasters, etc.

# 5 Forest management

## Summary of silvicultural treatments carried out (cont'd)

### A) Public forests (cont'd)

05.14.02

| Type of treatments | | Area (2002-2003) [1] | | | | | Area (2003-2004) [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TSFMA | | MRNF | | Total | TSFMA [2] | | MRNF [3] | | Total |
| | | (ha) | (%) | (ha) | (%) | (ha) | (ha) | (%) | (ha) | (%) | (ha) |
| Site preparation | | | | | | | | | | | |
| 1) Scarifying | | 44 031r | 100,0 | | | 44 031r | 40 257r | 100,0 | | | 40 257r |
| 2) Clearing | | 6 475r | 100,0 | | | 6 475r | 4 752r | 100,0 | | | 4 752r |
| 3) Brushing | | 234r | 33,2 | 470r | 66,8 | 704r | 42r | 12,7 | 288r | 87,3 | 330r |
| 4) Controlled slash burning | | | | | | | | | | | |
| 5) Controlled burning | | | | | | | | | | | |
| 6) Removal of residual stems | | 716r | 43,3 | 936r | 56,7 | 1 652r | 993r | 95,5 | 47r | 2,8 | 1 040r |
| Total | | 51 455r | 97,3 | 1 406r | 2,7 | 52 861r | 46 044r | 99,3 | 335r | 0,7 | 46 378r |
| Reforestation and seeding | | | | | | | | | | | |
| 1) Planting | (ha) | 40 010r | 99,2 | 303r | 0,8 | 40 314r | 30 782r | 100,0 | | | 30 782r |
| | (Seedlings, million) | 71r | 99,2 | 1r | 0,8 | 72r | 52r | 100,0 | | | 52r |
| 2) Reinforcement | (ha) | 26 850r | 98,4 | 444r | 1,6 | 27 294r | 21 117r | 100,0 | | | 21 117r |
| | (Seedlings, million) | 28r | 96,5 | 1r | 3,5 | 29r | 21r | 100,0 | | | 21r |
| 3) Enrichment | (ha) | 1 263r | 100,0 | | | 1 263r | 1 848r | 100,0 | | | 1 848r |
| | (Seedlings, million) | 0r | 100,0 | | | 0r | 1r | 100,0 | | | 1r |
| 4) Regeneration of SBBA [4] | Natural (ha) | | | | | | | | | | |
| | Artificial (ha) | 7 818r | 100,0 | | | 7 818r | 6 707r | 100,0 | | | 6 707r |
| | (Seedlings, million) | 9r | 100,0 | | | 9r | 9r | 100,0 | | | 9r |
| 5) Seeding | (ha) | 16r | | | | 16r | | | | | |
| Total | (ha) | 75 958r | 99,0 | 747r | 1,0 | 76 705r | 60 454r | 100,0 | | | 60 454r |
| | (Seedlings, million) | 108r | 98,5 | 2r | 1,5 | 110r | 83r | 100,0 | | | 83r |
| Noncommercial treatments | | | | | | | | | | | |
| 1) Release (plantations) | | 15 332r | 90,7 | 1 569r | 9,3 | 16 901r | 8 119r | 88,6 | 1 042r | 11,4 | 9 161r |
| 2) Release (natural regeneration) | | 2 961r | 91,5 | 275r | 8,5 | 3 236r | 2 099r | 90,2 | 227r | 9,8 | 2 326r |
| 3) Pre-commercial thinning | | 88 140r | 95,6 | 4 062r | 4,4 | 92 202r | 86 593r | 97,3 | 2 375r | 2,7 | 88 968r |
| 4) Phytosanitary control | | | | 318r | 100,0 | 318r | | | 1 301r | 100,0 | 1 301r |
| 5) Fertilization | | | | | | | 99r | 100,0 | | | 99r |
| 6) Drainage | | 3 312r | 100,0 | | | 3 312r | 3 520r | 100,0 | | | 3 520r |
| Total | | 109 745r | 94,6 | 6 224r | 5,4 | 115 969r | 100 430r | 95,3 | 4 945r | 4,7 | 105 375r |
| Commercial treatments | | | | | | | | | | | |
| 1) a) Cutting with protection of regeneration and soils | | 177 914r | 100,0 | | | 177 914r | 125 092r | 100,0 | | | 125 092r |
| b) Merchantable trees | | 2 498r | 100,0 | | | 2 498r | 908r | 100,0 | | | 908r |
| c) Tall regeneration | | 416r | 100,0 | | | 416r | 558r | 100,0 | | | 558r |
| d) With seed reserve | | 13 582r | 100,0 | | | 13 582r | 1 576r | 100,0 | | | 1 576r |
| Subtotal (CPRS) | | 194 411r | 100,0 | | | 194 411r | 128 133r | 100,0 | | | 128 133r |
| 2) Block cutting | | 36 469r | 100,0 | | | 36 469r | 61 878r | 100,0 | | | 61 878r |
| 3) a) Selection cutting | | 30 672r | 100,0 | | | 30 672r | 26 826r | 100,0 | | | 26 826r |
| b) Pre-selection cutting | | 10 175r | 100,0 | | | 10 175r | 1 258r | 100,0 | | | 1 258r |
| Subtotal | | 40 847r | 100,0 | | | 40 847r | 28 084r | 100,0 | | | 28 084r |
| 4) Improvement cutting | | 451r | | | | 451r | | | | | |
| 5) Shelterwood cutting | | 5 191r | 100,0 | | | 5 191r | 3 882r | 100,0 | | | 3 882r |
| 6) Commercial thinning | | 7 572r | 97,3 | 209r | 2,7 | 7 781r | 4 712r | 96,5 | 173r | 3,5 | 4 885r |
| 7) a) Strip cutting | | 576r | 100,0 | | | 576r | 529r | 100,0 | | | 529r |
| b) Patch cutting | | | | | | | | | | | |
| Subtotal | | 576r | 100,0 | | | 576r | 529r | 100,0 | | | 529r |
| 8) Harvesting in buffer strips | | 1 120r | 100,0 | | | 1 120r | 730r | 100,0 | | | 730r |
| 9) Other methods : | | | | | | | | | | | |
| a) Cutting for reforestation | | 7 819r | 100,0 | | | 7 819r | 6 707r | 100,0 | | | 6 707r |
| b) Clear cutting - SBBA | | 8 882r | 100,0 | | | 8 882r | 7 585r | 100,0 | | | 7 585r |
| - Roads | | 8 780r | 100,0 | | | 8 780r | 8 886r | 100,0 | | | 8 886r |
| c) Salvage cutting - special plans [5] | | 8 837r | 100,0 | | | 8 837r | 4 575r | 100,0 | | | 4 575r |
| d) Other methods | | 7 391r | 99,1 | 66r | 0,9 | 7 457r | 5 366r | 99,8 | 10r | 0,2 | 5 376r |
| Subtotal | | 41 707r | 99,8 | 66r | 0,2 | 41 773r | 31 098r | 100,0 | 10r | 0,0 | 31 108r |
| 10) Treatments carried out under the resource development program | | 1 448r | 100,0 | | | 1 448r | 746r | 100,0 | | | 746r |
| Total | | 329 791r | 99,9 | 275r | 0,1 | 330 066r | 259 792r | 99,9 | 183r | 0,1 | 259 975r |
| Grand total | | 566 949r | 98,5 | 8 652r | 1,5 | 575 602r | 466 721r | 98,8 | 5 463r | 1,2 | 472 184r |

1. Updated May 2, 2006.
2. TSFMA : Timber supply and forest management agreement holders.
3. MRNF : Ministère des Ressources naturelles et de la Faune.
4. SBBA : stacking, branching and bucking area.
5. Areas disturbed by natural disasters, etc.

N.B. : The CPRS was approx. 50 000 ha short in 2003-2004.

# 5 Forest management

## Summary of silvicultural treatments carried out (cont'd)

### A) Public forests (cont'd)

05.14.03

| Type of treatments | | Area (2004-2005) [1] | | | | | Area (2005-2006) [1a] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TSFMA [3] | | MRNF [4] | | Total | TSFMA [2] | | MRNF [3] | | Total |
| | | (ha) | (%) | (ha) | (%) | (ha) | (ha) | (%) | (ha) | (%) | (ha) |
| Site preparation | | | | | | | | | | | |
| 1) Scarifying | | 37 294r | 100,0 | | | 37 294r | 48 495p | 100,0 | | | 48 495p |
| 2) Clearing | | 3 488r | 100,0 | | | 3 488r | 3 688p | 100,0 | | | 3 688p |
| 3) Brushing | | 67r | 12,3 | 477r | 87,7 | 544r | | | | | |
| 4) Harrowing | | | | | | | | | | | |
| 5) Controlled burning | | | | | | | | | | | |
| 6) Removal of residual stems | | 379r | 84,2 | 71r | 15,8 | 450r | | | | | |
| **Total** | | 41 228r | 98,7 | 548r | 1,3 | 41 776r | 52 183p | 100,0 | | | 52 183p |
| Reforestation and seeding | | | | | | | | | | | |
| 1) Planting | (ha) | 28 235r | 100,0 | | | 28 235r | 37 174p | 100,0 | | | 37 174p |
| | (Seedlings, million) | 49r | 100,0 | | | 49r | 68p | 100,0 | | | 68p |
| 2) Reinforcement | (ha) | 20 692r | 100,0 | | | 20 692r | 16 709p | 100,0 | | | 16 709p |
| | (Seedlings, million) | 21r | 100,0 | | | 21r | 25p | 100,0 | | | 25p |
| 3) Enrichment | (ha) | 483r | 100,0 | | | 483r | 1 054p | 100,0 | | | 1 054p |
| | (Seedlings, million) | 0r | 100,0 | | | 0r | 0p | 100,0 | | | 0p |
| 4) Regeneration of SBBA [5] | Natural (ha) | | | | | | | | | | |
| | Artificial (ha) | 2 815r | 100,0 | | | 2 815r | 3 000p | 100,0 | | | 3 000p |
| | (Seedlings, million) | 4r | 100,0 | | | 4r | 4p | 100,0 | | | 4p |
| 5) Seeding | (ha) | 254r | 100,0 | | | 254r | 343p | 100,0 | | | 343p |
| **Total** | (ha) | 52 478r | 100,0 | | | 52 478r | 58 280p | 100,0 | | | 58 280p |
| | (Seedlings, million) | 74r | 100,0 | | | 74r | 98 | 100,0 | | | 98p |
| Noncommercial treatments | | | | | | | | | | | |
| 1) Release (plantations) | | 9 619r | 99,8 | 18r | 0,2 | 9 637r | 10 294p | 100,0 | | | 10 294p |
| 2) Release (natural regeneration) | | 3 992r | 100,0 | | | 3 992r | 2 427p | 100,0 | | | 2 427p |
| 3) Pre-commercial thinning | | 82 744r | 98,1 | 1 583r | 1,9 | 84 327r | 92 746p | 100,0 | | | 92 746p |
| 4) Phytosanitary control | | 12r | 100,0 | | | 12r | | | | | |
| 5) Fertilization | | 211r | 48,4 | 225r | 51,6 | 436r | | | | | |
| 6) Drainage | | 3 844r | 100,0 | | | 3 844r | 5 171p | 100,0 | | | 5 171p |
| **Total** | | 100 422r | 98,2 | 1 826r | 1,8 | 102 248r | 110 639p | 100,0 | | | 110 639p |
| Commercial treatments | | | | | | | | | | | |
| 1) a) Cutting with protection of regeneration and soils | | 99 172r | 100,0 | | | 99 172r | 180 062p | 100,0 | | | 180 062p |
| b) Merchantable trees | | 2 773r | 100,0 | | | 2 773r | 2 037p | 100,0 | | | 2 037p |
| c) Tall regeneration | | 1 402r | 100,0 | | | 1 402r | 64p | 100,0 | | | 64p |
| d) With seed reserve | | 940r | | | | 940r | 63p | | | | 63p |
| **Subtotal (CPRS)** | | 104 287r | 100,0 | | | 104 287r | 182 226p | 100,0 | | | 182 226p |
| 2) Block cutting | | 98 236r | 100,0 | | | 98 236r | 94 190p | 100,0 | | | 94 190p |
| 3) a) Selection cutting | | 21 733r | 100,0 | | | 21 733r | 12 116p | 100,0 | | | 12 116p |
| b) Pre-selection cutting | | 3 130r | 100,0 | | | 3 130r | 1 241p | 100,0 | | | 1 241p |
| **Subtotal** | | 24 863r | 100,0 | | | 24 863r | 13 357p | 100,0 | | | 13 357p |
| 4) Improvement cutting | | 46r | 100,0 | | | 46r | | | | | |
| 5) Shelterwood cutting | | 2 484r | 100,0 | | | 2 484r | 831p | 100,0 | | | 831p |
| 6) Commercial thinning | | 7 012r | 100,0 | | | 7 012r | 5 825p | 100,0 | | | 5 825p |
| 7) a) Strip cutting | | 376r | 100,0 | | | 376r | 128p | 100,0 | | | 128p |
| b) Patch cutting | | | | | | | | | | | |
| **Subtotal** | | 376r | 100,0 | | | 376r | 128p | 100,0 | | | 128p |
| 8) Harvesting in buffer strips | | | | | | | | | | | |
| 9) Other methods : | | | | | | | | | | | |
| a) Cutting for reforestation | | 2 815r | 100,0 | | | 2 815r | 2 800p | 100,0 | | | 2 800p |
| b) Clear cutting - SBBA | | 7 510r | 100,0 | | | 7 510r | 7 500p | 100,0 | | | 7 500p |
| - Roads | | 6 333r | 100,0 | | | 6 333r | 6 000p | 100,0 | | | 6 000p |
| c) Salvage cutting - special plans 6 | | 2 859r | 100,0 | | | 2 859r | 2 500p | 100,0 | | | 2 500p |
| d) Other methods | | 12 936r | 99,8 | 29r | 0,2 | 12 965r | 10 000p | 100,0 | | | 10 000p |
| **Subtotal** | | 32 452r | 99,9 | 29r | 0,1 | 32 481r | 28 800p | 100,0 | | | 28 800p |
| 10) Treatments carried out under the resource development program | | 51r | 100,0 | | | 51r | | | | | |
| **Total** | | 269 807r | 100,0 | 29r | 0,0 | 269 836r | 325 356p | 100,0 | | | 325 356p |
| **Grand total** | | 463 935r | 99,5 | 2 403r | 0,5 | 466 339r | 546 458p | 100,0 | | | 546 458p |

1. Updated May 2, 2006.
1a. According to the state of sylvicultural treatments from 2005 up to April 28, 2006.
2. TSFMA : Timber supply and forest management agreement holders.
3. MRNF : Ministère des Ressources naturelles et de la Faune.
4. SBBA : stacking, branching and bucking area.
5. Areas disturbed by natural disasters, etc.
N.B. : The CPRS was approx. 65 000 ha short in 2004-2005, and in 2005-2006, it has been estimated like the other cuts.

# 5 Forest management

## Summary of silvicultural treatments carried out (cont'd)

05.14.04

### B) Private forests [1]

| Type of treatments | Area (2001-2002) (ha) | Area (2002-2003) (ha) | Area (2003-2004) (ha) | Area (2004-2005) [2] (ha) | Area (2005-2006) [2] (ha) |
|---|---|---|---|---|---|
| Site preparation | | | | | |
| 1) Scarifying | 1 044 | 1 059 | 676 | 609 | 542p |
| 2) Clearing | 2 957 | 2 983 | 3 595 | 3 188 | 3 663p |
| 3) Ploughing and harrowing | 247 | 288 | 220 | 164 | 193p |
| 4) Brushing | | | | | |
| - mechanical | 3 871 | 3 278 | 3 127 | 2 955 | 2 680p |
| - chemical | | | | | |
| 5) Removal of residual stems | 432 | 484 | 528 | 592 | 450p |
| 6) Other treatments | 671 | 1 018 | 877 | 665 | 656p |
| **Total** | **9 221** | **9 110** | **9 022** | **8 173** | **8 185p** |
| Reforestation | | | | | |
| 1) Planting | 10 607 | 10 517 | 9 056 | 8 672 | 7 967p |
| 2) Reinforcement | 1 555 | 1 269 | 1 368 | 1 193 | 1 109p |
| 3) Enrichment | 103 | 174 | 252 | 216 | 159p |
| **Total** | **12 264** | **11 959** | **10 675** | **10 082** | **9 235p** |
| (Seedlings, million) | 27 | 26 | 23 | 22 | 20r |
| Noncommercial treatments | | | | | |
| 1) Release (plantations) | | | | | |
| - mechanical | 9 500 | 9 414 | 9 535 | 11 413 | 11 114p |
| - chemical | 114 | | | | |
| 2) Release (natural regeneration) | | | | | |
| - mechanical | 977 | 482 | 554 | 325 | 256p |
| - chemical | | | | | |
| 3) Pre-commercial thinning | 7 829 | 5 587 | 5 011 | 6 013 | 5 745p |
| 4) Phytosanitary control | 510 | 623 | 536 | 467 | 568p |
| 5) Drainage | 1 677 | 1 530 | 1 203 | 825 | 514p |
| **Total** | **20 608** | **17 635** | **16 839** | **19 043** | **18 197p** |
| Commercial treatments | | | | | |
| 1) Selection cutting | 2 442 | 2 228 | 2 268 | 1 745 | 1 933p |
| 2) Shelterwood cutting | 489 | 450 | 427 | 531 | 620p |
| 3) Strip and patch cutting | 23 | 7 | 11 | 22 | 9p |
| 4) Commercial thinning | 4 437 | 4 713 | 4 656 | 4 636 | 5 620p |
| 5) Other methods | 3 096 | 2 596 | 2 473 | 4 932 | 5 236p |
| **Total** | **10 485** | **9 994** | **9 835** | **11 866** | **13 418p** |
| **Grand total** | **52 578** | **48 698** | **46 371** | **49 164** | **49 034p** |

1. All types of treatments are also carried out annually by woodlot owners with personal or business entitlement, beyond the scope of these subsidy programs. These treatments are not included in the present data.
2. The data include all of the programs that have been managed by agencies for private forest development (Example : PMVFP, specific expectations, employment creation programs, section 2, faunal projects, etc.)

**Source** : The private forest data are drawn from the regular program (PFDSP) to which the rexforêt progam is added for the fiscal years 2002-2003, 2003-2004, and 2004-2004

# 6 Use of forests for educational, leisure, research and experimental purposes

## Highlights

### Teaching and research forests (TRF), September 2006

06.00.01

| | |
|---|---|
| Teaching and research forests (no.) | 16 |
| Area (ha, 000s) | 38,7 |

N.B. : The Duchesnay Forest Station is now under the responsibility of SÉPAQ.

### Experimental forests (EF), September 2006

| | |
|---|---|
| Permanent (no.) | 197 |
| Temporary (no.) | 414 |
| **Total (no.)** | **611** |
| Area (ha, 000s) | 24 |

### Principal wildlife-related activities in 2000

| | Participants (no.) | Expenditures ($M) | Jobs (no.) | Added value ($M) |
|---|---|---|---|---|
| Fishing [1] | 813 600 | 1 047,8 | 9 754 | 457,9 |
| Hunting [1] | 408 000 | 308,4 | 3 322 | 157,3 |
| Outdoor activities | 2 350 600 | 1 269,5 | 15 656 | 760,7 |
| Wildlife-related travel [1] | 1 211 800 | 303,4 | 3 379 | 162,6 |

1. Non-residents' expenditures, jobs and added value are not included because they are not available.

# 7 Non-timber use

## Non-timber forest products (NTFPs)

## Highlights

### Volume and value of large-container maple production, farm sales and home consumption

07 00 01

| | | 2004 | 2005 |
|---|---|---|---|
| Bulk syrup | (l, 000s) | 21 619 | 22 932p |
| | ($, 000s) | 103 077 | 129 646p |
| Direct sales by producers | (l, 000s) | 3 150 | 2 866p |
| | ($, 000s) | 27 356 | 24 472p |
| Producers' consumption | (l, 000s) | 281 | 281p |
| | ($, 000s) | 2 444 | 2 403p |
| Bulk syrup (stock) | (l, 000s) | 5 147 | .. |
| **Marketed and self-sufficient production** | **(l, 000s)** | **25 050** | **26 079p** |
| | **($, 000s)** | **132 877** | **156 521p** |
| **Total production** | **(l, 000s)** | **30 198** | .. |

**Sources :** Ministère de l'Agriculture, des Pêcheries et de l'Alimentation.
Institut de la statistique du Québec

### Sale of wild blueberries from blueberry farms and forests in Québec

| Year | | Fresh fruit sales | | | Sales to processors | | | Total sales |
|---|---|---|---|---|---|---|---|---|
| | | Farms | Forests | Total | Farms | Forests | Total | |
| 2004 | Quantity ( t ) | 181,4 | 226,8 | 408,2 | 16 147,9 | 3 855,5 | 20 003,4 | 20 411,6 |
| | Value ($, 000s) | 500,0 | 750,0 | 1 250,0 | 21 360,0 | 6 800,0 | 28 160,0 | 29 410,0 |
| 2005 | Quantity ( t ) | 181,4 | 272,2 | 453,6 | 14 968,5 | 4 690,1 | 19 658,6 | 20 112,2 |
| | Value ($, 000s) | 500,0 | 870,0 | 1 370,0 | 26 400,0 | 10 340,0 | 36 740,0 | 38 110,0 |

**Sources :** Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec.
Institut de la statistique du Québec

### Bulk Christmas tree production

| | 2004 | | 2005 | |
|---|---|---|---|---|
| | Number | Value ($) | Number | Value ($) |
| Québec | 18 795 000 | 48 773 000 | 19 200 000e | 49 749 000 |

**Source :** Background National Forestry Database Program, **Compendium of Canadian Forestry Statistics**, forest product sector.

### Québec's essential oil industry

| Year | Number of plants [1] | Imports [2] ($, 000s) | Exports [2] ($, 000s) | Re-Exports [2, 3] ($, 000s) |
|---|---|---|---|---|
| 2004 | 13 | 185 | 38 | 0 |
| 2005 | 12 | 228 | 31 | 0 |

1. Directory of essential oil producers in Québec (**Essential oils**: *3771.01G*).
2. Statistics Canada – SH330130 – **Essential oils.**
3. "Re-Export" means export of merchandise produced from imported raw materials.

# 8 Logging

## Highlights

### Economic indicators for the Québec forestry and logging industry (NAICS 113)

08.00.01

| | 1999 | 2004 |
|---|---|---|
| Total jobs (no.) | 11 120 | 12 747 |
| Total salaries and wages ($, 000s) | 255 540 | 423 391 |
| Value of shipments and other revenue ($, 000s) | 2 258 181 | 2 889 756 |
| Value added [1] to total activity ($, 000s) | 712 565 | 1 302 709 |
| Capital expenditures and repairs ($, 000s) | 213 700 | 154 000 |

1. Added value includes purchase of services.

**Sources :** Statistics Canada : 61-205, 61-206 and CANSIM.

# 9 Timber use

## Highlights

09 00 01

### Consumption of Québec's primary wood Processing plants in 2005 ($m^3$, 000s)

| | |
|---|---|
| **By species** | |
| • FSPL | 54 278 |
| • Other softwoods | 2 233 |
| • Poplars | 5 150 |
| • Hardwoods | 9 026 |
| • **Total** | 70 686 |
| **By type of timber use** | |
| • Roundwood | 43 799 |
| • Chips | 18 919 |
| • Sawdust, shavings, wood residues and bark | 7 969 |
| • **Total** | 70 686 |
| **By source** | |
| • Public forests | 31 013 |
| • Private forests | 7 267 |
| • Exchange between mills | 24 081 |
| • Outside Québec | 8 326 |
| • **Total** | 70 686 |
| **By product** | |
| • Pulp and paper | 24 188 |
| • Saw timber | 35 989 |
| • Peelers | 280 |
| • Panelboard | 6 504 |
| • Other | 3 725 |
| • **Total** | 70 686 |

### Balance of Québec's bark in 2005 (BDMT, 000s)

| | |
|---|---|
| Estimated production | 3 545 |
| Use | 3 470 |
| Projects [1] | 75 |

1. Steam boiler, pyrolysis, electricity generation and cogeneration projects.

### Trade with markets outside Québec in 2005 ($m^3$, 000s)

| Region or country | Receipts | Shipments |
|---|---|---|
| **Ontario** | | |
| • Softwoods | 843,2 | 458,5 |
| • Hardwoods | 1 089,3 | 11,2 |
| **Other provinces** | | |
| • Softwoods | 1 007,3 | 750,9 |
| • Hardwoods | 478,4 | 114,2 |
| **United States and other countries** | | |
| • Softwoods | 3 022,0 | 1 111,3 |
| • Hardwoods | 1 885,6 | 63,6 |
| **Total** | | |
| • **Softwoods** | **4 872,5** | **2 320,7** |
| • **Hardwoods** | **3 453,2** | **189,0** |

### Principal products of Québec's primary wood processing plants

| | 2005 |
|---|---|
| Pulp destined for sale (BDMT) | 1 902 382 |
| Paper (BDMT) | 6 561 669 |
| Paperboard (BDMT) | 1 558 082 |
| Insulation board (ml) | 76 980 |
| Particle board ($m^2$) | 4 246 674 |
| Veneer ($m^2$) | 89 835 752 |
| Shingles (squares) | 661 301 |
| Poles (units) | 65 493 |
| Mulching material (BDMT) | 6 339 |
| Charcoal (mt) | 3 077 |
| Saw timber (bd ft, 000s) | 8 006 218 |
| Other products (bd ft, 000s)[1] | 111 681 |

1. Other products: fuel pellets, electricity, turning and shaping, laths, etc.

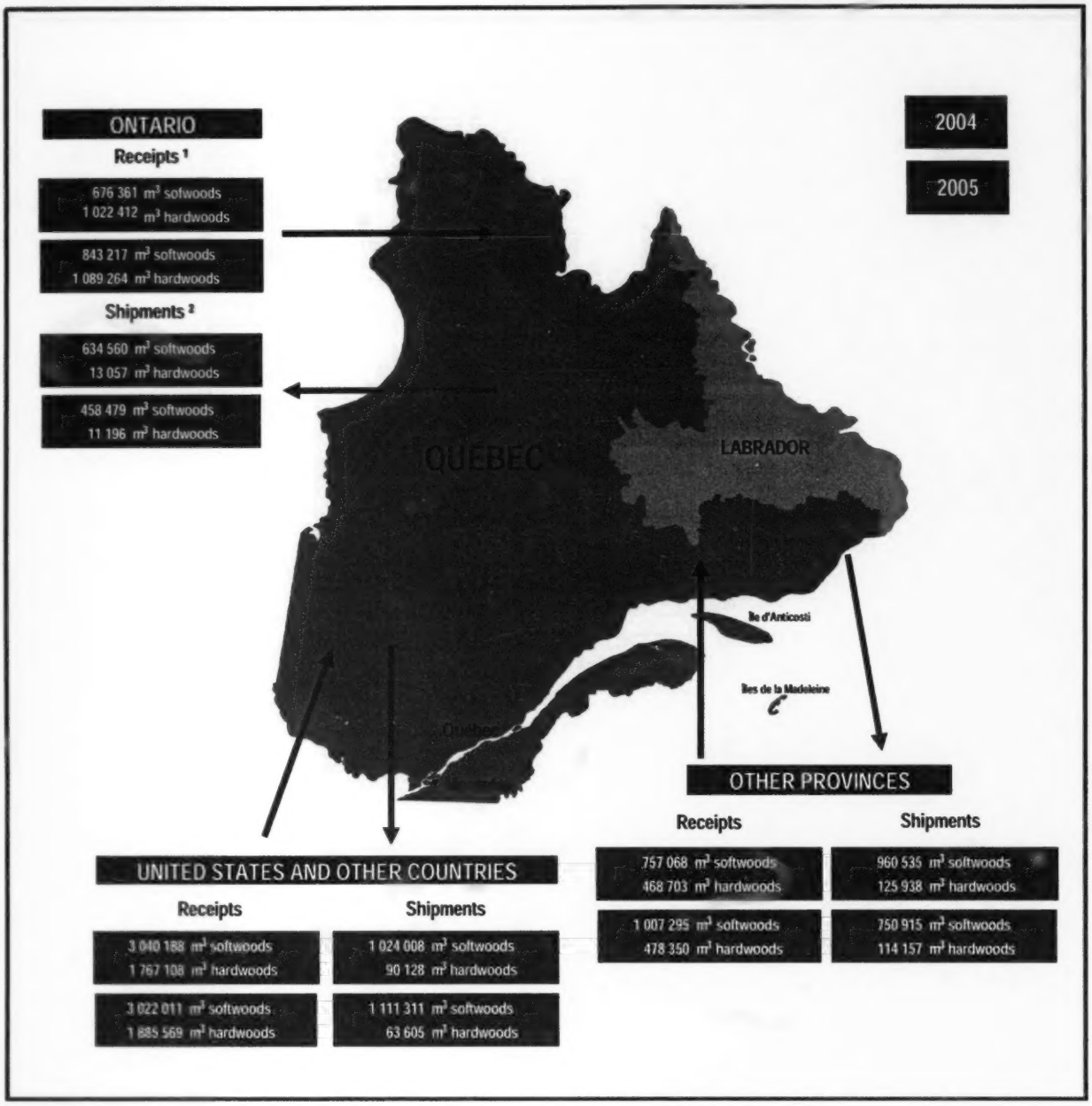
### FSPL chip stocks at Québec's sawmills

| | December 1999 | December 2005 |
|---|---|---|
| FSPL chips (BDMT, 000s) | 81,1 | 42,3 |

# 9 Timber use

## Trade with markets outside Québec

09.05.01




1. Receipts of roundwood, chips, sawdust and bark from outside Québec.
2. Shipments of chips, sawdust and bark outside Québec, estimated destination breakdown.

**Source : Forestry Register**, Division de l'évaluation de la demande, DDIPF, ministère des Ressources naturelles et de la Faune.

# 10 Wood industries

## Highlights

10.00.01

### Québec's primary wood processing plants in 2005

| | |
|---|---|
| Lumber | 410 |
| Pulp and paper [1] | 38 |
| Veneer and plywood | 13 |
| Particle board | 12 |
| Wood turning and shaping | 8 |
| Energy production and cogeneration [2] | 16 |
| Other | 2 |
| **Total** | **499** |

1. The remaining 27 pulp, paper and paperboard mills do not consume round-wood, chips, sawdust or shavings.
2. Mills producing electricity, pellets and fuel chips.

**Source : Forestry Register**, Ministère des Ressources naturelles et de la Faune.

### Establishments by wood processing groups and sub-groups in 2004

| | |
|---|---|
| Wood product manufacturing | 718 |
| Paper manufacturing | 200 |
| **Total** | **918** |

**Source** : Statistics Canada (According to the annual report on logging and manufacturing).

### Economic indicators for Québec's wood products industry (NAICS 321) in 2004

| | |
|---|---|
| Jobs (no.) | 37 473 |
| Salaries and wages ($, 000s) | 1 412 299 |
| Value of shipments and other revenue ($, 000s) | 9 758 118 |
| Value added [1] to total activity ($, 000s) | 4 091 534 |
| Capital expenditures and repairs ($, 000s) | 712 100 |

1. The value added to total activity has been estimated.

**Sources** : Statistics Canada (According to the annual report on logging and manufacturing).
Institut de la statistique du Québec, Investissements privés et publics au Québec

### Québec's lumber production ($m^3$, 000s)

| | | |
|---|---|---|
| 2002 | • Softwoods | 19 228 |
| | • Hardwoods | 1 162 |
| 2003 | • Softwoods | 18 894 |
| | • Hardwoods | 1 083 |
| 2004 | • Softwoods | 19 414 |
| | • Hardwoods | 1 112 |
| 2005 | • Softwoods | 17 599 |
| | • Hardwoods | 1 008 |
| 2006 | • Softwoods | 16 302 |
| | • Hardwoods | 934 |

**Source:** Statistics Canada: 35-003.

### Source of wood used by Québec's sawmills in 2005 (m3, 000s)

| | |
|---|---|
| Public forests | 26 566,0 |
| Private forests | 4 698,1 |
| Other mills | 45,8 |
| Outside Québec | 4 679,3 |
| **Total** | **35 989,2** |

**Source : Forestry Register**, Ministère des Ressources naturelles et de la Faune.

### Joint production of Québec's sawmills in 2005 (BDMT, 000s)

| | |
|---|---|
| Chips | 7 237 |
| Sawdust and shavings | 2 079 |
| Bark | 2 750 |
| **Total** | **12 066** |

**Source : Forestry Register**, Ministère des Ressources naturelles et de la Faune.

### Québec's lumber shipments in 2005 ($m^3$, 000s)

| | |
|---|---|
| Softwoods | 15 556,1 |
| Hardwoods | 1 846,6 |
| **Total** | **17 402,7** |

**Source : Forestry Register**, Ministère des Ressources naturelles et de la Faune.

### Destination of Québec's lumber shipments (%)

| | 2005 | | 2006 | |
|---|---|---|---|---|
| | Softwoods | Hardwoods | Softwoods | Hardwoods |
| Canada | 52,7 | 55,5 | 54,1 | 59,0 |
| United States | 47,0 | 32,7 | 45,3 | 27,0 |
| Overseas | 0,3 | 11,8 | 0,6 | 14,0 |
| **Total** | **100,0** | **100,0** | **100,0** | **100,0** |

**Sources** : Statistics Canada and Ministère des Ressources naturelles et de la Faune du Québec (**Forestry register**).

# 10 Wood industries
## Highlights (cont'd)

### Economic indicators for Québec's sawmills and wood preservation industries (NAICS 32111) in 2004

| | |
|---|---|
| Jobs (no.) | 15 652 |
| Salaries and wages ($, 000s) | 648 791 |
| Value of shipments and other revenue ($, 000s) | 4 459 252 |
| Value added [1] to total activity ($, 000s) | 1 621 705 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to the total activity has been estimated.

### Economic indicators of Québec's sawmills, excluding shingle mills (NAICS 321111) in 2004

| | |
|---|---|
| Jobs (no.) | 14 674 |
| Salaries and wages ($, 000s) | 612 941 |
| Value of shipments and other revenue ($, 000s) | 4 232 392 |
| Value added [1] to total activity ($, 000s) | 1 539 680 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to the total activity has been estimated.
Sources : Statistics Canada (According to the annual report on logging and manufacturing).
Institut de la statistique du Québec, Investissements privés et publics au Québec

### Volume and value of Québec's lumber exports by destination in 2006

| | Volume ($m^3$, 000s) | Value ($, millions) |
|---|---|---|
| United Stated and Mexico | 7 687,2 | 1 284,5 |
| Europe | 108,3 | 105,3 |
| Middle East and Africa | 87,1 | 40,5 |
| Asia and Oceania | 69,5 | 49,6 |
| Central and South America | 9,6 | 3,6 |
| **Total** | **7 961,7** | **1 483,5** |

Source : Institut de la statistique du Québec.

### Economic indicators for Québec's veneer, plywood and reconstituted wood industry (NAICS 3212) in 2004

| | |
|---|---|
| Jobs (no.) | 6 207 |
| Salaries and wages ($, 000s) | 248 794 |
| Value of shipments and other revenue ($, 000s) | 2 241 889 |
| Value added [1] to total activity ($, 000s) | 1 123 772 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Economic indicators for Québec's particle board industry

| | 2005 | 2006 |
|---|---|---|
| Jobs (no.) | 2 310 | 2 295 |
| Mills (no.) | 14 | 14 |
| Production capacity ($m^3$, 000s/year) | 5 012 | 4 727 |
| Capital expenditures and repairs ($, 000s) | .. | .. |

Sources : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestières (internal compilation).

### Economic indicators for Québec's waferboard industry (NAICS 321217) [1] in 2004

| | |
|---|---|
| Jobs (no.) | 667 |
| Salaries and wages ($, 000s) | 36 518 |
| Value of shipments and other revenue ($, 000s) | 611 468 |
| Value added [2] to total activity ($, 000s) | 418 476 |

1. NAICS 321217 corresponds to the oriented strand board (OSB) industry.
2. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Québec's balance of trade [1] in the wood products sector [2] ($, million)

| Wood, charcoal and wood products | Exports | Imports | Balance of trade |
|---|---|---|---|
| 2004 | 4 685,2 | 992,0 | 3 693,2 |
| 2005 | 4 296,2 | 1 000,7 | 3 295,5 |
| 2006 | 3 639,9 | 981,6 | 2 658,3 |

1. Balance of trade of commercial goods with international destinations.
2. Product descriptors consistent with the Harmonized Commodity Description and Coding System (World Customs Organization).
Source : Institut de la statistique du Québec, according to the Standard Classification of Goods

### Québec's balance of trade [1] in the wood products sector [2] ($, million)

| Wood product manufacturing (NAICS 321) | Exports | Imports | Balance of trade |
|---|---|---|---|
| 2004 | 4 588,3 | 611,7 | 3 976,6 |
| 2005 | 4 201,2 | 632,0 | 3 569,2 |
| 2006 | 3 548,1 | 635,9 | 2 912,2 |

1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.
Source : Institut de la statistique du Québec.

# 10 Wood industries

## Highlights



### Québec's primary wood processing plants in 2005

| | |
|---|---|
| Lumber | 410 |
| Pulp and paper [1] | 38 |
| Veneer and plywood | 13 |
| Particle board | 12 |
| Wood turning and shaping | 8 |
| Energy production and cogeneration [2] | 16 |
| Other | 2 |
| **Total** | **499** |

1. The remaining 27 pulp, paper and paperboard mills do not consume round-wood, chips, sawdust or shavings.
2. Mills producing electricity, pellets and fuel chips.

**Source :** Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Establishments by wood processing groups and sub-groups (including furniture and printing) in 2004

| | |
|---|---|
| Wood product manufacturing | 718 |
| Furniture and related product manufacturing | 650 |
| Paper manufacturing | 200 |
| Printing and related support activities | 447 |
| **Total** | **2 015** |

**Source :** Statistics Canada (According to the annual report on logging and manufacturing).

### Economic indicators for Québec's wood products industry (NAICS 321) in 2004

| | |
|---|---|
| Jobs (no.) | 37 473 |
| Salaries and wages ($, 000s) | 1 412 299 |
| Value of shipments and other revenue ($, 000s) | 9 758 118 |
| Value added [2] to total activity ($, 000s) | 4 091 534 |
| Capital expenditures and repairs ($, 000s) | 712 100 |

1. The value added to the total activity has been estimated.

**Sources :** Statistics Canada (According to the annual report on logging and manufacturing).
Institut de la statistique du Québec, Investissements privés et publics au Québec

### Economic indicators for Québec's furniture and related product manufacturing industry (NAICS 337) in 2004

| | |
|---|---|
| Jobs (no.) | 29 811 |
| Salaries and wages ($, 000s) | 974 926 |
| Value of shipments and other revenue ($, 000s) | 3 846 467 |
| Value added [1] to total activity ($, 000s) | 2 164 431 |
| Capital expenditures and repairs ($, 000s) | 109 700 |

1. The value added to the total activity has been estimated.

**Source :** Statistics Canada (According to the annual report on logging and manufacturing).

### Québec's lumber production ($m^3$, 000s)

| | | |
|---|---|---|
| 2002 | • Softwoods | 19 228 |
| | • Hardwoods | 1 162 |
| 2003 | • Softwoods | 18 894 |
| | • Hardwoods | 1 083 |
| 2004 | • Softwoods | 19 414 |
| | • Hardwoods | 1 112 |
| 2005 | • Softwoods | 17 599 |
| | • Hardwoods | 1 008 |
| 2006 | • Softwoods | 16 302 |
| | • Hardwoods | 934 |

**Source :** Statistics Canada : 35-003.

### Québec's furniture and related product production industry (NAICS 337) ($, 000s)

| | |
|---|---|
| 2002 | 4 135 690 |
| 2003 | 4 087 732 |
| 2004 | 4 068 224 |
| 2005 | 4 197 082 |

**Source :** Institut de la statistique du Québec (principal statistics on the total activity)

### Source of wood used by Québec's sawmills in 2005 (m3, 000s)

| | |
|---|---|
| Public forests | 26 566,0 |
| Private forests | 4 698,1 |
| Other mills | 45,8 |
| Outside Québec | 4 679,3 |
| **Total** | **35 989,2** |

**Source :** Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Joint production of Québec's sawmills in 2005 (BDMT, 000s)

| | |
|---|---|
| Chips | 7 237 |
| Sawdust and shavings | 2 079 |
| Bark | 2 750 |
| **Total** | **12 066** |

**Source :** Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's lumber shipments in 2005 ($m^3$, 000s)

| | |
|---|---|
| Softwoods | 15 556,1 |
| Hardwoods | 1 846,6 |
| **Total** | **17 402,7** |

**Source :** Forestry Register, Ministère des Ressources naturelles et de la Faune.

# 10 Wood industries
## Highlights (cont'd)



### Destination of Québec's lumber shipments in 2006 (%)

| | Softwoods | Hardwoods |
|---|---|---|
| Canada | 54,1 | 59,0 |
| United States | 45,3 | 27,0 |
| Overseas | 0,6 | 14,0 |
| Total | 100,0 | 100,0 |

Source : Statistics Canada and Ministère des Ressources naturelles et de la Faune du Québec (Forestry register).

### Economic indicators for Québec's sawmills and wood preservation industries (NAICS 32111) in 2004

| | |
|---|---|
| Jobs (no.) | 15 652 |
| Salaries and wages ($, 000s) | 648 791 |
| Value of shipments and other revenue ($, 000s) | 4 459 252 |
| Value added [1] to total activity ($, 000s) | 1 621 705 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to the total activity has been estimated.
Sources : Statistics Canada (According to the annual report on logging and manufacturing). Institut de la statistique du Québec, Investissements privés et publics au Québec

### Economic indicators of Québec's sawmills, excluding shingle mills (NAICS 321111) in 2004

| | |
|---|---|
| Jobs (no.) | 14 674 |
| Salaries and wages ($, 000s) | 612 941 |
| Value of shipments and other revenue ($, 000s) | 4 232 392 |
| Value added [1] to total activity ($, 000s) | 1 539 680 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Volume and value of Québec's lumber exports by destination in 2006

| | Volume ($m^3$, 000s) | Value ($, millions) |
|---|---|---|
| United Stated and Mexico | 7 687,2 | 1 284,5 |
| Europe | 108,3 | 105,3 |
| Middle East and Africa | 87,1 | 40,5 |
| Asia and Oceania | 69,5 | 49,6 |
| Central and South America | 9,6 | 3,6 |
| Total | 7 961,7 | 1 483,5 |

Source : Institut de la statistique du Québec.

### Economic indicators for Québec's veneer, plywood and reconstituted wood industry (NAICS 3212) [1] in 2004

| | |
|---|---|
| Jobs (no.) | 6 207 |
| Salaries and wages ($, 000s) | 248 794 |
| Value of shipments and other revenue ($, 000s) | 2 241 889 |
| Value added [2] to total activity ($, 000s) | 1 123 772 |
| Capital expenditures and repair ($, 000s) | .. |

1. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Economic indicators for Québec's particle board industry

| | 2005 | 2006 |
|---|---|---|
| Jobs (no.) | 2 310 | 2 295 |
| Mills (no.) | 14 | 14 |
| Production capacity ($m^3$, 000s/year) | 5 012 | 4 727 |
| Capital expenditures and repairs ($, 000s) | .. | .. |

Source : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestières (internal compilation)

### Economic indicators for Québec's waferboard industry (NAICS 321217) [1] in 2004

| | |
|---|---|
| Jobs (no.) | 667 |
| Salaries and wages ($, 000s) | 36 518 |
| Value of shipments and other revenue ($, 000s) | 611 468 |
| Value added [2] to total activity ($, 000s) | 418 476 |

1. NAICS 321217 corresponds to the oriented strand board (OSB) industry.
2. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Québec's balance of trade [1] in the furniture [2] manufacturing sector ($, million)

| Furniture and related product manufacturing | Exports | Imports | Balance of trade |
|---|---|---|---|
| 2004 | 1 707,7 | 564,3 | 1 143,4 |
| 2005 | 1 515,8 | 630,0 | 885,8 |
| 2006 | 1 368,9 | 743,1 | 625,8 |

1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.
Source : Institut de la statistique du Québec.

### Québec's balance of trade [1] in the wood and furniture [2] manufacturing sector ($, million)

| Wood product and furniture and related product manufacturing | Exports | Imports | Balance of trade |
|---|---|---|---|
| 2004 | 6 296,0 | 1 176,0 | 5 120,0 |
| 2005 | 5 717,0 | 1 262,0 | 4 455,0 |
| 2006 | 4 917,0 | 1 379,0 | 3 538,0 |

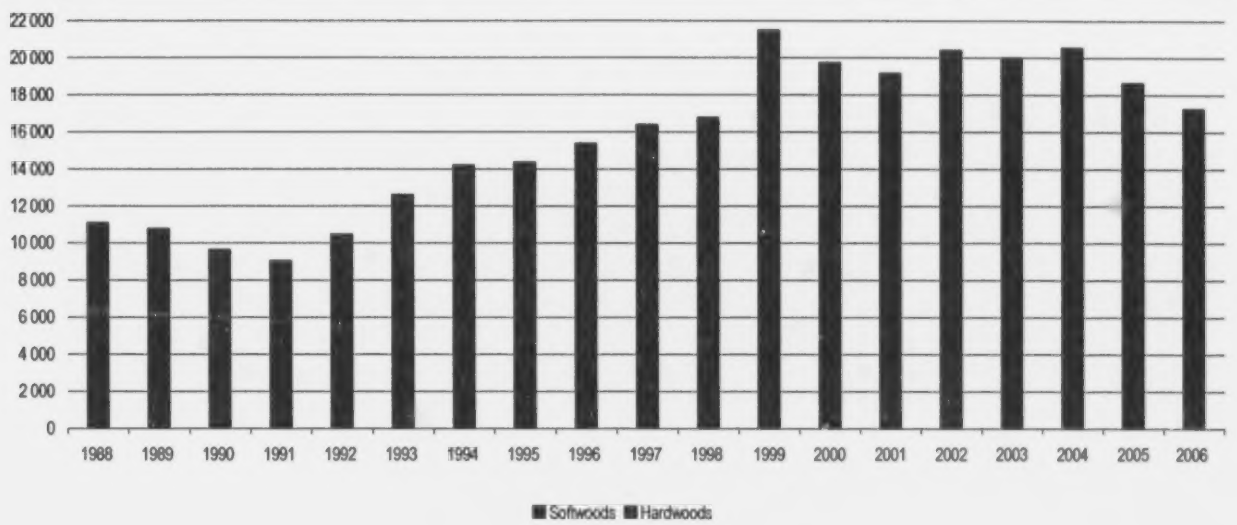
1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.
Source : Institut de la statistique du Québec.

# 10 Wood industries

## Overview

### Timber production in Québec (softwoods and hardwoods) ($m^3$, 000s)

10 01 09



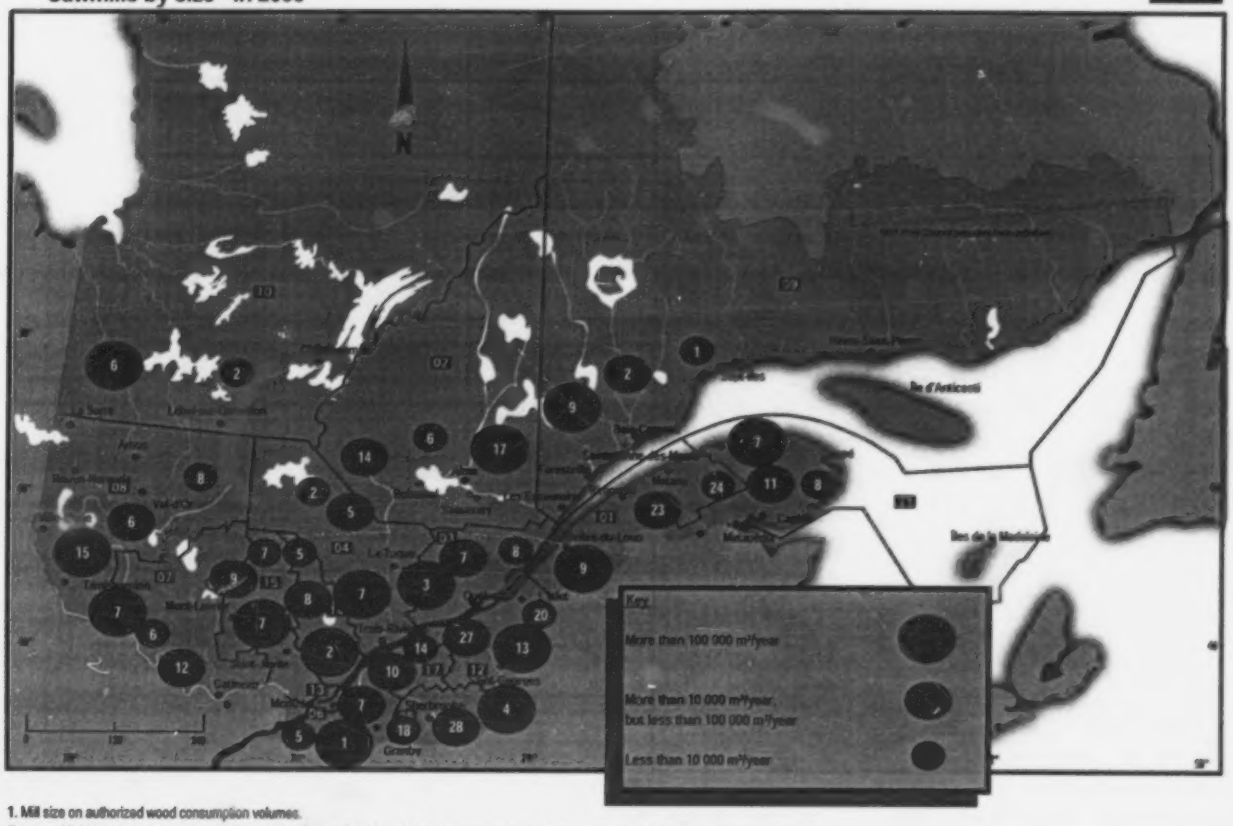

Sources: Statistics Canada: 35-002 (1987 to 1995) and 35-003.

## 10 Wood industries

### *The sawmill industry*

### Sawmills by size [1] in 2005

19.02.01




1. Mill size on authorized wood consumption volumes.

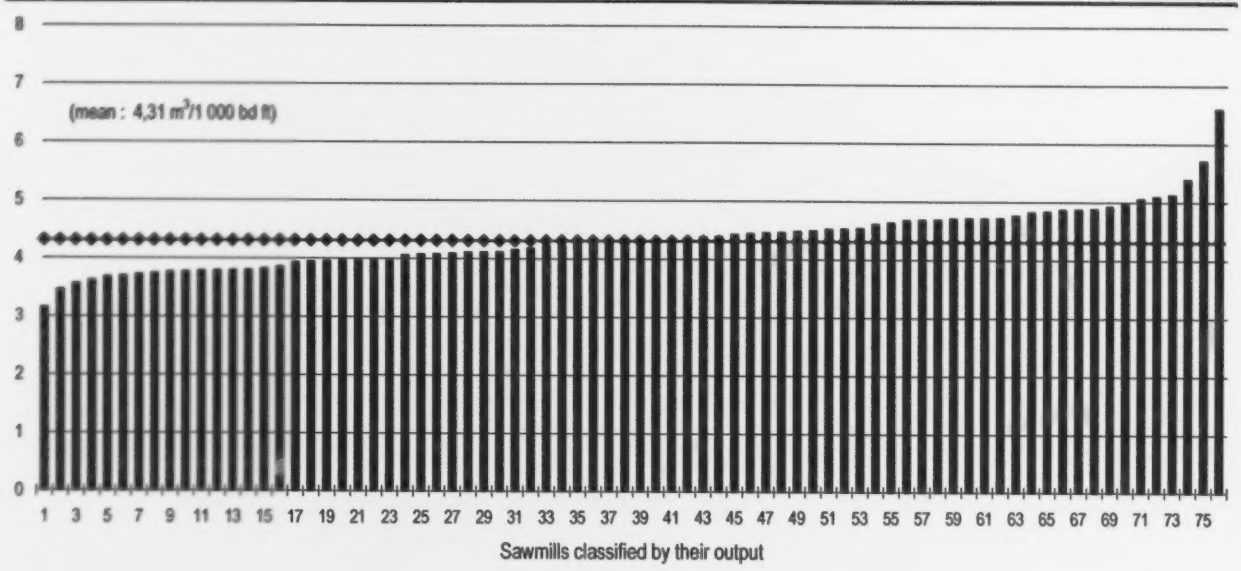
Source : Ministère des ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers ( Forestry register).

## The sawmill industry (cont'd)

### Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA [1] holders) in 2004

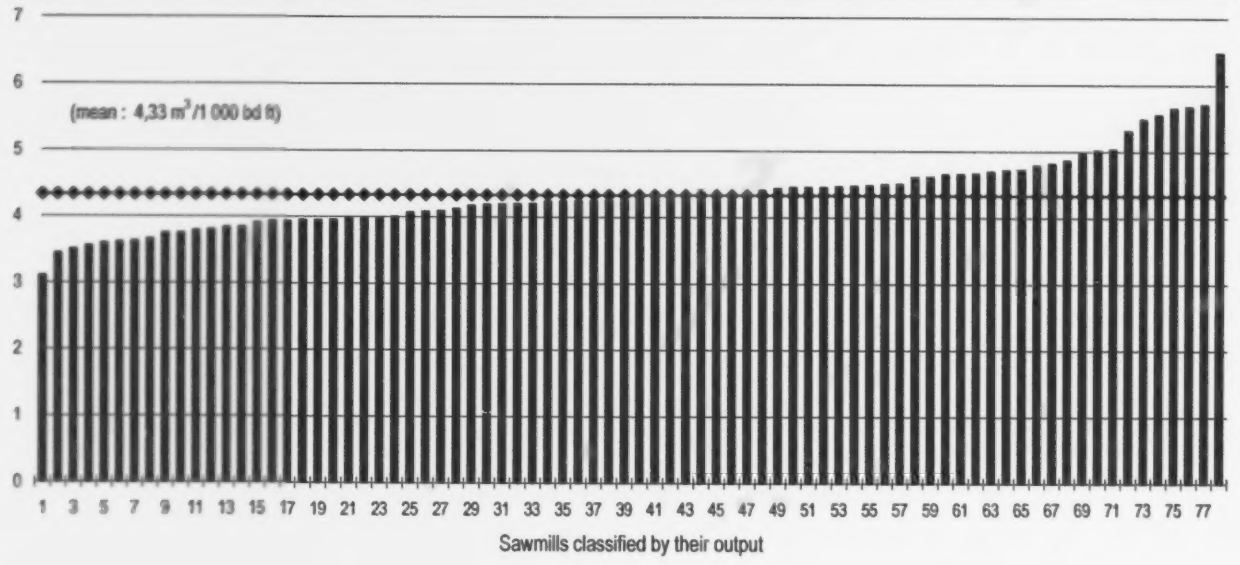
($m^3$/1 000 bd ft)

10.02.06




### Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA [1] holders) in 2005

($m^3$/1 000 bd ft)




1. TSFMA : timber supply and forest management agreement.

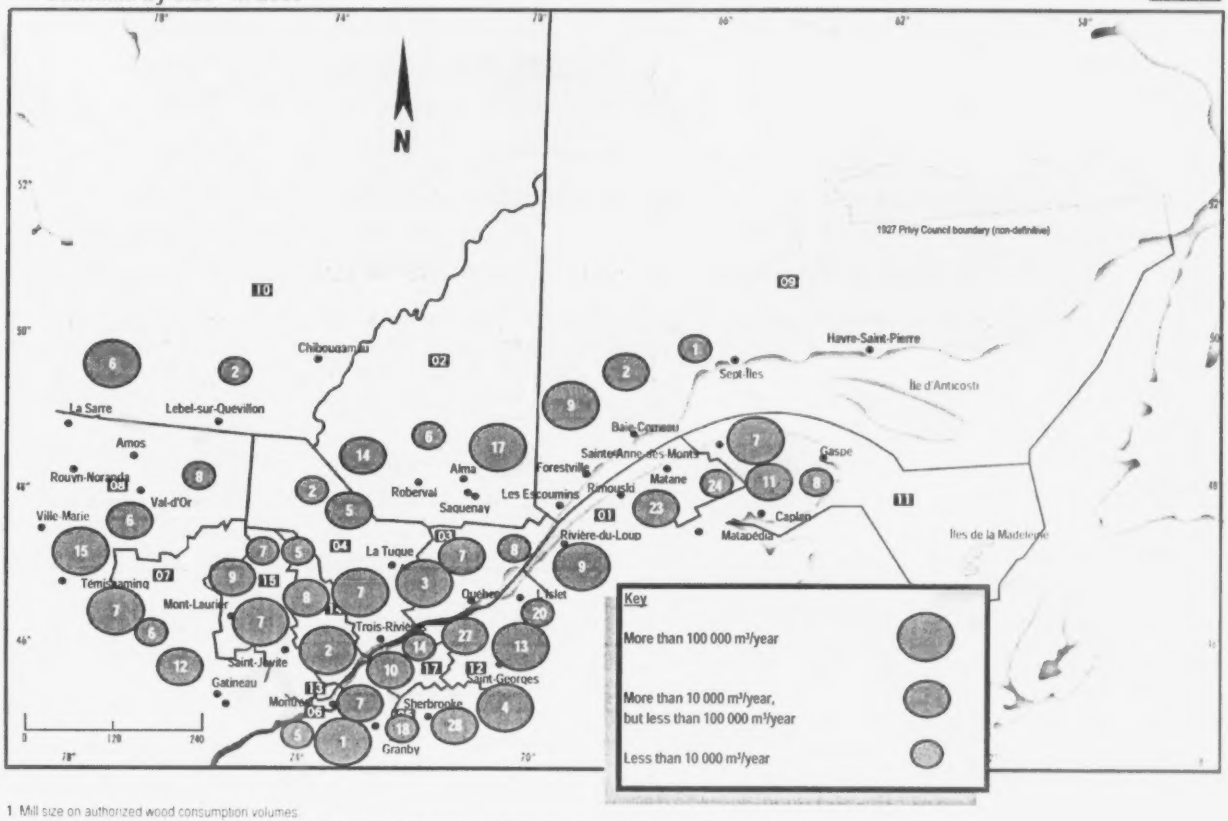
Source : Forestry register, Ministère des Ressources naturelles et de la Faune.

# 10 Wood industries

## The sawmill industry

### Sawmills by size [1] in 2005

10.02.01




1. Mill size on authorized wood consumption volumes.

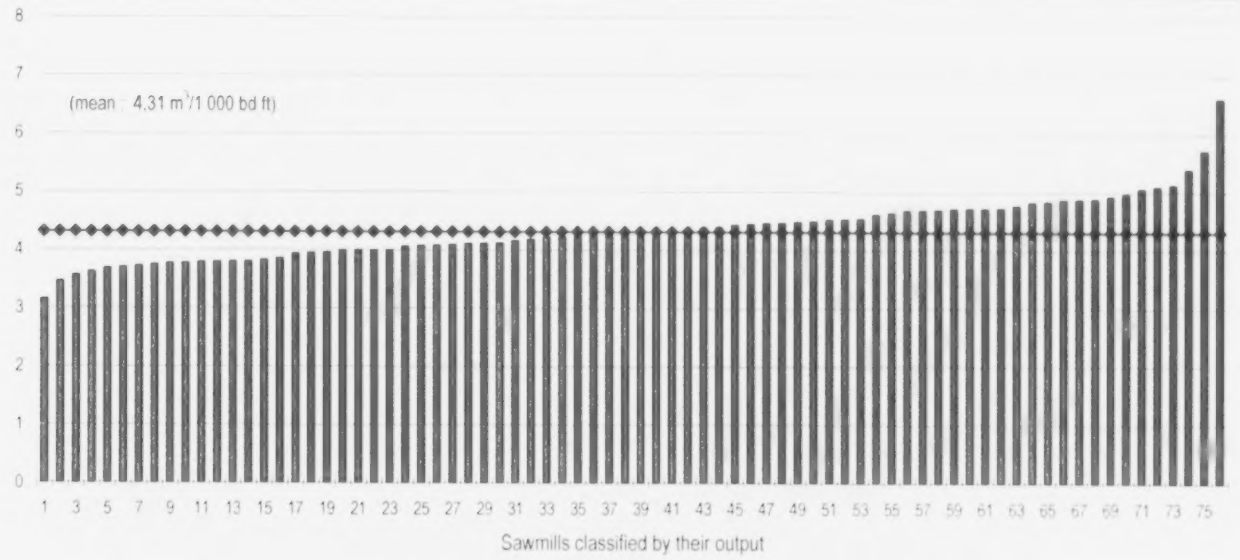
Source : Ministère des ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers ( Forestry register )

## The sawmill industry (cont'd)

### Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA [1] holders) in 2004

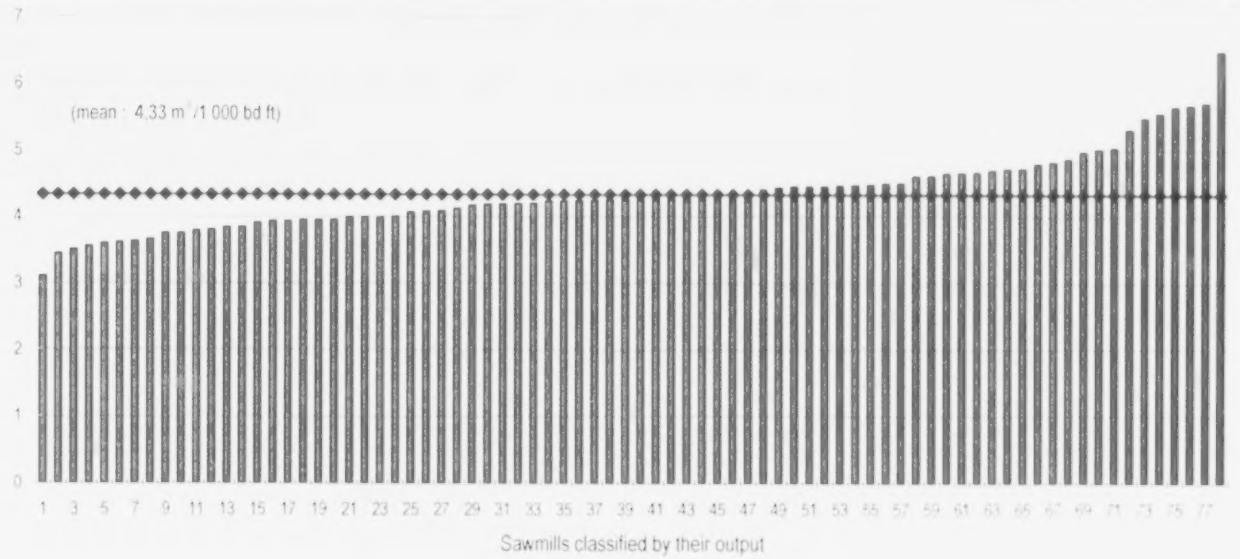
($m^3$/1 000 bd ft)

10.02.06




### Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA [1] holders) in 2005

($m^3$/1 000 bd ft)




1. TSFMA : timber supply and forest management agreement.

Source : **Forestry register**, Ministère des Ressources naturelles et de la Faune.

# 11 The pulp and paper industry
## Highlights

11.00.01

### Québec's pulp, paper and paperboard mills in June 2006

| | |
|---|---|
| Mills consuming roundwood, chips, sawdust and shavings (primary processing mills) | 38 |
| Mills consuming market pulp and recycled fibres | 23 |
| Total | 61 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's pulp, paper and paperboard mills and production capacity in June 2006 [1]

| | Mills (no.) | Production capacity (BDMT, 000s/year) |
|---|---|---|
| Market pulp | 9 | 3 648,2 |
| Newsprint (mechanical, supercalandered, etc.) | 19 | 4 913,5 |
| Paperboard packaging and others | 10 | 1 502,8 |
| Low-density board | 2 | 110,0 |
| Fine and specialty paper | 3 | 894,8 |
| Construction paperboard | 1 | 18,0 |
| Kraft papers (packing, carbon) | 2 | 103,2 |
| Sanitary tissue | 15 | 683,8 |
| Total | 61 | 11 874,3 |

1. Classification by main product.
Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Establishments by paper manufacturing industry sub-groups (NAICS 322)

| | 2004 |
|---|---|
| Mechanical pulp mills | 5 |
| Chemical pulp mills | 6 |
| Paper (except newsprint) mills | 24 |
| Newsprint mills | 16 |
| Paperboard mills | 16 |
| Corrugated and solid paperboard box manufacturing | 25 |
| Folding paperboard box manufacturing | 22 |
| Other paperboard container manufacturing | 15 |
| Paper bag and coated and treated paper manufacturing | 31 |
| Stationery product manufacturing | 16 |
| Sanitary paper product manufacturing | 15 |
| All other converted paper product manufacturing | 9 |
| Total | 200 |

Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Main timber supply sources for Québec's pulp and paper industry in 2005 ($m^3$ 000s)

| | |
|---|---|
| Roundwood and chips (public forests) | 1 793,6 |
| Roundwood and chips (private forests) | 1 675,7 |
| Roundwood, chips, sawdust and shavings from Québec's mills | 17 682,1 |
| Roundwood, chips, sawdust and shavings from outside Québec | 2 889,7 |
| Total | 24 041,1 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Raw materials used in Québec's pulp and paper mills in 2005 (BDMT, 000s)

| | |
|---|---|
| Roundwood | 1 879,0 |
| Joint sawmill production | 8 235,0 |
| Recycled fibres and commercial pulp | 2 916,0 |
| Total | 13 030,0 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Recycled fibre from paper and paperboard recycled by Québec's pulp and paper industry in 2005 (BDMT, 000s)

| | |
|---|---|
| Recovered paper for de-inking | 1 225,0 |
| Recovered paper, without de-inking | 152,5 |
| Recovered paperboard for de-inking | 689,8 |
| Total | 2 067,3 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Types of pulp produced by Québec's pulp and paper industry (mt, 000s)

| | 2003 | 2004 | 2005 |
|---|---|---|---|
| Sulphate pulp (Kraft) | 2 083 | 2 122 | 2 009 |
| Thermomechanical pulp | 3 785 | 3 823 | 3 948 |
| Recycled pulp | 1 697 | 1 703 | 1 784 |
| Other pulp | 1 275 | 1 242 | 1 153 |
| Total | 8 730 | 8 890 | 8 862 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's paper and paperboard production (mt, 000s)

| | 2004 | 2005 |
|---|---|---|
| Newsprint | 3 472 | 3 416 |
| Printing and writing papers | 3 055 | 3 149 |
| Sanitary tissue | 342 | 288 |
| Other papers | 140 | 213 |
| Paperboard | 1 763 | 1 651 |
| Total | 8 772 | 8 716 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's share of Canadian paper and paperboard production (mt, 000s)

| | 2004 | | 2005 | |
|---|---|---|---|---|
| | Newsprint | Other paper and paperboard | Newsprint | Other paper and paperboard |
| Québec | 3 488 | 4895 | 3 421 | 4 871 |
| Canada | 8 180 | 12419 | 7 769 | 11 904 |
| Québec/Canada (%) | 42,6 | 39,4 | 44,0 | 40,9 |

Sources : Conseil des industries forestières du Québec (CIFQ).
Conseil des produits des pâtes et papiers (CPPP).

### Economic indicators for Québec's paper products industry (NAICS 322) in 2004

| | |
|---|---|
| Jobs (no.) | 27 658 |
| Salaries and wages ($, 000s) | 1 559 063 |
| Value of shipments and other revenue ($, 000s) | 10 764 347 |
| Value added[1] to total activity ($, 000s) | 4 317 907 |
| Capital expenditures and repair ($, 000s) | 784 800 |

1. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

# 11 Pulp and paper industry
## Highlights (cont'd)

11.00.01

### Economic indicators for Québec's wood pulp, paper and paperboard industry (NAICS 3221) in 2004

| | |
|---|---|
| Jobs (no.) | 18 303 |
| Salaries and wages ($, 000s) | 996 974 |
| Value of shipments and other revenue ($, 000s) | 7 307 688 |
| Value added [1] to total activity ($, 000s) | 2 799 230 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to the total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Destination of Québec's pulp and paper shipments in 2005 (mt, 000s)

| | Canada | United States | Other countries | Total |
|---|---|---|---|---|
| Newsprint | 478 | 2 208 | 728 | 3 412 |
| Market pulp | 275 | 358 | 754 | 1 387 |
| Other paper and paperboard | 1 365 | 3 316 | 206 | 4 887 |
| Total | 2 116 | 5 882 | 1 688 | 9 686 |

Source : Conseil des industries forestières du Québec (CIFQ).

### Destination of Québec's pulp and paper shipments in 2006 (tm, 000s)

| | Canada | United States | Other countries | Total |
|---|---|---|---|---|
| Newsprint | 487 | 2 062 | 730 | 3 279 |
| Market pulp | 289 | 256 | 739 | 1 284 |
| Other paper and paperboard | 1 724 | 3 427 | 172 | 5 323 |
| Total | 2 500 | 5 745 | 1 641 | 9 886 |

Source : Conseil des industries forestières du Québec (CIFQ).

### Relative share of Québec's pulp and paper exports ($, million)

| | 2004 | 2005 | 2006 |
|---|---|---|---|
| Pulp and paper exports | 7 264 | 7 401 | 7 495 |
| Total exports | 68 478 | 71 026 | 73 330 |
| Relative share (%) | 10,6 | 10,4 | 10,2 |

Sources : Statistics Canada : 65-003 and Institut de la statistique du Québec.

### Share of Québec's newsprint exports on US market (mt, 000s)

| | 2003 | 2004 | 2005 |
|---|---|---|---|
| Québec's shipments to the US | 2 388 | 2 339 | 2 206p |
| US newsprint consumption | 10 130 | 9 897 | 9 376p |
| Relative share (%) | 23,6 | 23,6 | 23,5p |

Source : Institut de la statistique du Québec and Conseil des produits des pâtes et papiers (CPPP).

### Québec's balance of trade [1] in the pulp and paper sector [2] in 2006 ($, million)

| | Exports | Imports | Balance of trade |
|---|---|---|---|
| Woodpulp or pulp derived from other cellulosic fibrous materials, paper or paperboard for recycling (waste and residues) | 1 005,0 | 165,0 | 840,0 |
| Paper or paperboard; cellulose products, in paper or paperboard | 6 490,0 | 1 011,7 | 5 478,3 |
| Total | 7 495,0 | 1 176,7 | 6 318,3 |

1. Balance of trade of commercial goods with international destinations.
2. Product descriptors consistent with the Harmonized Commodity Description and Coding System (World Customs Organization).
Source : Institut de la statistique du Québec.

### Québec's balance of trade [1] in the pulp and paper [2] products manufacturing sector in 2006 ($, million)

| | Exports | Imports | Balance of trade |
|---|---|---|---|
| Pulp, paper and paperboard mills (NAICS 3221) | 6 658,8 | 747,3 | 5 911,5 |
| Converted paper product manufacturing (NAICS 3222) | 707,1 | 315,7 | 391,4 |
| Total | 7 365,9 | 1 063,0 | 6 302,9 |

1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.
Source : Institut de la statistique du Québec.

### Environmental protection

| | 1981 | 2004 | 2004 / 1981 |
|---|---|---|---|
| Total suspended solids (TSS) in mill effluent (kg/ton of pulp produced) | 26,0 | 1,9 | -93 % |
| Biochemical oxygen demand ($BOD_5$) in mill effluent (kg/ton of pulp produced) | 59,1 | 1,0 | -98 % |
| Water consumption by mills ($m^3$/ton of pulp produced) | 121,0 | 51,0 | -58 % |

Source : Ministère du Développement durable, de l'Environnement et des Parcs.

### Investments by papermills to clean up atmospheric emissions in 2001

| | |
|---|---|
| Québec investments ($, 000s) | 12 177 |
| Canadian investments ($, 000s) | 213 497 |
| Québec / Canada (%) | 5,7 |

Source : Association des produits forestiers du Canada (APFC).

# 11 The pulp and paper industry

## Highlights



### Québec's pulp, paper and paperboard mills in June 2006

| | |
|---|---|
| Mills consuming roundwood, chips, sawdust and shavings (primary processing mills) | 38 |
| Mills consuming market pulp and recycled fibres | 23 |
| Total | 61 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's pulp, paper and paperboard mills and production capacity in June 2006 [1]

| | Mills (no.) | Production capacity (BDMT, 000s/year) |
|---|---|---|
| Market pulp | 9 | 3 648,2 |
| Newsprint (mechanical, supercalandered, etc.) | 19 | 4 913,5 |
| Paperboard packaging and others | 10 | 1 502,8 |
| Low-density board | 2 | 110,0 |
| Fine and specialty paper | 3 | 894,8 |
| Construction paperboard | 1 | 18,0 |
| Kraft papers (packing, carbon) | 2 | 103,2 |
| Sanitary tissue | 15 | 683,8 |
| Total | 61 | 11 874,3 |

1. Classification by main product.
Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Establishments by paper manufacturing industry sub-groups (NAICS 322)

| | 2004 |
|---|---|
| Mechanical pulp mills | 5 |
| Chemical pulp mills | 6 |
| Paper (except newsprint) mills | 24 |
| Newsprint mills | 16 |
| Paperboard mills | 16 |
| Corrugated and solid paperboard box manufacturing | 25 |
| Folding paperboard box manufacturing | 22 |
| Other paperboard container manufacturing | 15 |
| Paper bag and coated and treated paper manufacturing | 31 |
| Stationery product manufacturing | 16 |
| Sanitary paper product manufacturing | 15 |
| All other converted paper product manufacturing | 9 |
| Total | 200 |

Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Establishments by printing and related support acitivities industry sub-groups (NAICS 323)

| | 2004 |
|---|---|
| Commercial screen printing | 29 |
| Quick printing | 10 |
| Digital printing | 11 |
| Manifold business forms printing | 36 |
| Other printing | 283 |
| Support activities for printing | 78 |
| Total | 447 |

Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Main timber supply sources for Québec's pulp and paper industry in 2005 ($m^3$, 000s)

| | |
|---|---|
| Roundwood and chips (public forests) | 1 793,6 |
| Roundwood and chips (private forests) | 1 675,7 |
| Roundwood, chips, sawdust and shavings from Québec's mills | 17 682,1 |
| Roundwood, chips, sawdust and shavings from outside Québec | 2 889,7 |
| Total | 24 041,1 |

Source : Foresty Register, Ministère des Ressources naturelles et de la Faune.

### Raw materials used in Québec's pulp and paper mills in 2005 (BDMT, 000s)

| | |
|---|---|
| Roundwood | 1 879,0 |
| Joint sawmill production | 8 235,0 |
| Recycled fibres and commercial pulp | 2 916,0 |
| Total | 13 030,0 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Recycled fibre from paper and paperboard recycled by Québec's pulp and paper industry in 2005 (BDMT, 000s)

| | |
|---|---|
| Recovered paper for de-inking | 1 225,0 |
| Recovered paper, without de-inking | 152,5 |
| Recovered paperboard, whithout de-inking | 689,8 |
| Total | 2 067,3 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Types of pulp produced by Québec's pulp and paper industry (mt, 000s)

| | 2003 | 2004 | 2005 |
|---|---|---|---|
| Sulphate pulp (Kraft) | 2 083 | 2 122 | 2 009 |
| Thermomechanical pulp | 3 765 | 3 823 | 3 946 |
| Recycled pulp | 1 607 | 1 703 | 1 754 |
| Other pulp | 1 275 | 1 242 | 1 153 |
| Total | 8 730 | 8 890 | 8 862 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's paper and paperboard production (mt, 000s)

| | 2004 | 2005 |
|---|---|---|
| Newsprint | 3 472 | 3 416 |
| Printing and writing papers | 3 055 | 3 149 |
| Sanitary tissue | 342 | 298 |
| Other papers | 140 | 213 |
| Paperboard | 1 763 | 1 651 |
| Total | 8 772 | 8 716 |

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

### Québec's share of Canadian paper and paperboard production (mt, 000s)

| | 2004 | | 2005 | |
|---|---|---|---|---|
| | Newsprint | Other paper and paperboard | Newsprint | Other paper and paperboard |
| Québec | 3 488 | 4895 | 3 421 | 4 871 |
| Canada | 8 180 | 12419 | 7 769 | 11 904 |
| Québec/Canada (%) | 42,6 | 39,4 | 44,0 | 40,9 |

Sources : Conseil des industries forestières du Québec (CIFQ).
Conseil des produits des pâtes et papiers (CPPP).

# 11 Pulp and paper industry

## Highlights (cont'd)



### Québec's printing and related support activities production industry (NAICS 323) ($, 000s)

| | |
|---|---|
| 2002 | 3 214 765 |
| 2003 | 3 361 042 |
| 2004 | 3 462 989 |
| 2005 | 3 453 772 |

Source : Institut de la statistique du Québec (principal statistics on total activity).

### Economic indicators for Québec's paper products industry (NAICS 322) in 2004

| | |
|---|---|
| Jobs (no.) | 27 658 |
| Salaries and wages ($, 000s) | 1 559 063 |
| Value of shipments and other revenue ($, 000s) | 10 764 347 |
| Value added [1] to total activity ($, 000s) | 4 317 907 |
| Capital expenditures and repair ($, 000s) | 784 800 |

1. The value added to total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Economic indicators for Québec's wood pulp, paper and paperboard industry (NAICS 3221) in 2004

| | |
|---|---|
| Jobs (no.) | 16 303 |
| Salaries and wages ($, 000s) | 996 974 |
| Value of shipments and other revenue ($, 000s) | 7 307 688 |
| Value added [1] to total activity ($, 000s) | 2 799 230 |
| Capital expenditures and repairs ($, 000s) | .. |

1. The value added to total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Destination of Québec's pulp and paper shipments in 2005 (mt, 000s)

| | Canada | United States | Other countries | Total |
|---|---|---|---|---|
| Newsprint | 476 | 2 208 | 728 | 3 412 |
| Market pulp | 275 | 358 | 754 | 1 387 |
| Other paper and paperboard | 1 365 | 3 316 | 206 | 4 887 |
| Total | 2 116 | 5 882 | 1 688 | 9 686 |

Source : Conseil des industries forestières du Québec (CIFQ).

### Destination of Québec's pulp and paper shipments in 2006 (tm, 000s)

| | Canada | United States | Other countries | Total |
|---|---|---|---|---|
| Newsprint | 487 | 2 062 | 730 | 3 279 |
| Market pulp | 269 | 256 | 739 | 1 264 |
| Other paper and paperboard | 1 724 | 3 427 | 172 | 5 323 |
| Total | 2 500 | 5 745 | 1 641 | 9 886 |

Source : Conseil des industries forestières du Québec (CIFQ).

### Relative share of Québec's pulp and paper exports ($, million)

| | 2004 | 2005 | 2006 |
|---|---|---|---|
| Pulp and paper exports | 7 264 | 7 401 | 7 495 |
| Total exports | 68 476 | 71 026 | 73 330 |
| Relative share (%) | 10,6 | 10,4 | 10,2 |

Sources : Statistics Canada : 65-003 and Institut de la statistique du Québec.

### Share of Québec's newsprint exports on US market (mt, 000s)

| | 2003 | 2004 | 2005 |
|---|---|---|---|
| Québec's shipments to the US | 2 388 | 2 339 | 2 208p |
| US newsprint consumption | 10 130 | 9 897 | 9 376p |
| Relative share (%) | 23,6 | 23,6 | 23,5p |

Sources : Institut de la statistique du Québec and Conseil des produits des pâtes et papiers (CPPP).

### Economic indicators for Québec's printing and related support activities (NAICS 323) in 2004

| | |
|---|---|
| Jobs (no.) | 18 438 |
| Salaries and wages ($, 000s) | 809 136 |
| Value of shipments and other revenue ($, 000s) | 3 132 757 |
| Value added [1] to total activity ($, 000s) | 1 747 495 |
| Capital expenditures and repair ($, 000s) | 123 500 |

1. The value added to total activity has been estimated.
Source : Statistics Canada (According to the annual report on logging and manufacturing).

### Québec's balance of trade [1] in the printing and related activities [2] sector in 2006 ($, million)

| | Exports | Imports | Balance of trade |
|---|---|---|---|
| Printing and related support activities | 502,0 | 145,7 | 356,3 |

1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.
Source : Institut de la statistique du Québec.

### Québec's balance of trade [1] in the pulp and paper, printing and related support activities manufacturing [2] in 2006 ($, million)

| | Exports | Imports | Balance of trade |
|---|---|---|---|
| Pulp and paper manufacturing | 7 365,9 | 1 063,0 | 6 302,9 |
| Printing and related support activities | 502,0 | 145,7 | 356,3 |
| Total | 7 867,9 | 1 208,7 | 6 659,2 |

1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.
Source : Institut de la statistique du Québec.

### Environmental protection

| | 1981 | 2004 | 2004 / 1981 |
|---|---|---|---|
| Total suspended solids (TSS) in mill effluent (kg/ton of pulp produced) | 26,0 | 1,9 | -93 % |
| Biochemical oxygen demand ($BOD_5$) in mill effluent (kg/ton of pulp produced) | 59,1 | 1,0 | -98 % |
| Water consumption by mills ($m^3$/ton of pulp produced) | 121,0 | 51,0 | -58 % |

Source : Ministère du Développement durable, de l'Environnement et des Parcs.

### Investments by papermills to clean up atmospheric emissions in 2001

| | |
|---|---|
| Québec investments ($, 000s) | 12 177 |
| Canadian investments ($, 000s) | 213 497 |
| Québec/Canada (%) | 5,7 |

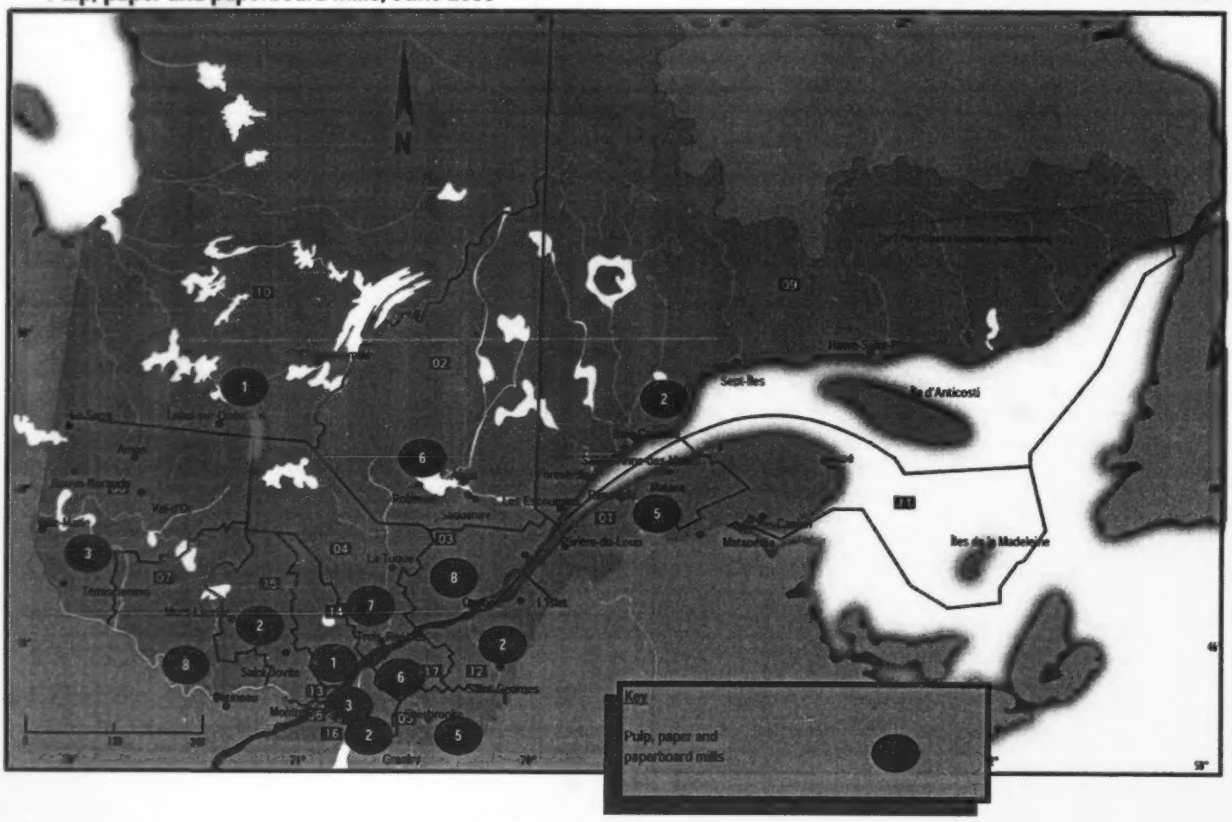
Source : Association des produits forestiers du Canada (APFC).

# 11 The pulp and paper industry

## Production capacity

### Pulp, paper and paperboard mills, June 2006[1]

11.01.01




1. There are no pulp and paper mills in the regions of Gaspésie-Îles-de-la-Madeleine (11) and Laval (13).

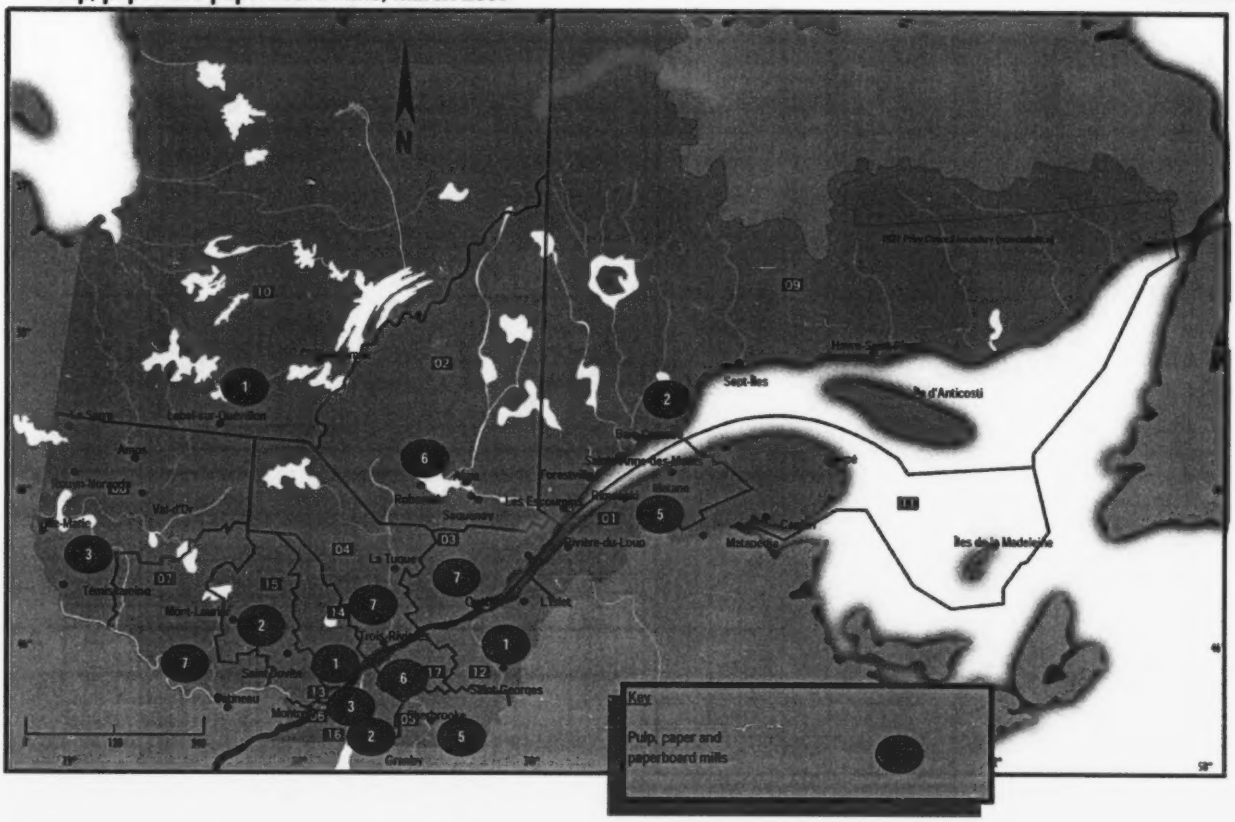
**Source :** Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (Forestry Register).

# 11 The pulp and paper industry

## Production capacity

### Pulp, paper and paperboard mills, March 2007[1]

11.01.01 (2)




1. There are no pulp and paper mills in the regions of Gaspésie-Îles-de-la-Madeleine (11) and Laval (13).

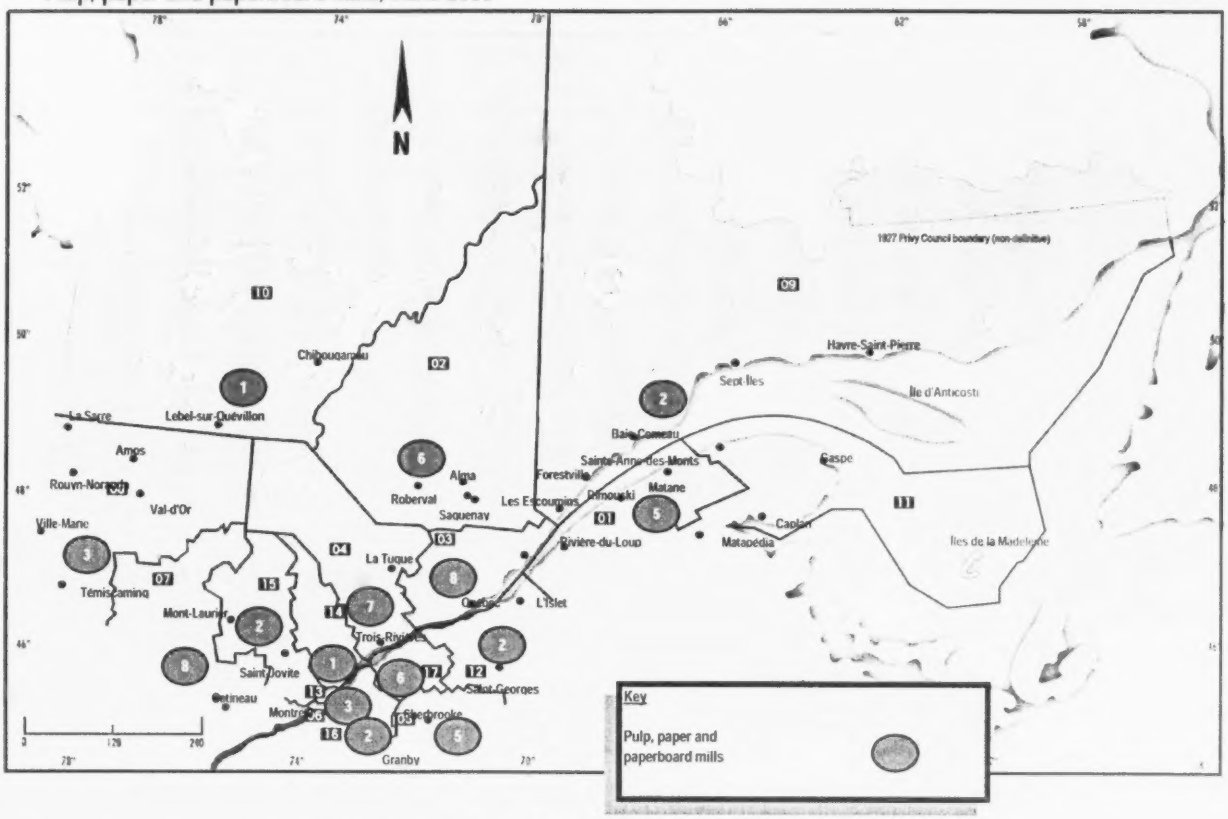
**Source :** Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (**Forestry Register**).

# 11 The pulp and paper industry

## Production capacity

### Pulp, paper and paperboard mills, June 2006[1]

11.01.01




1. There are no pulp and paper mills in the regions of Gaspésie-Îles-de-la-Madeleine (11) and Laval (13).

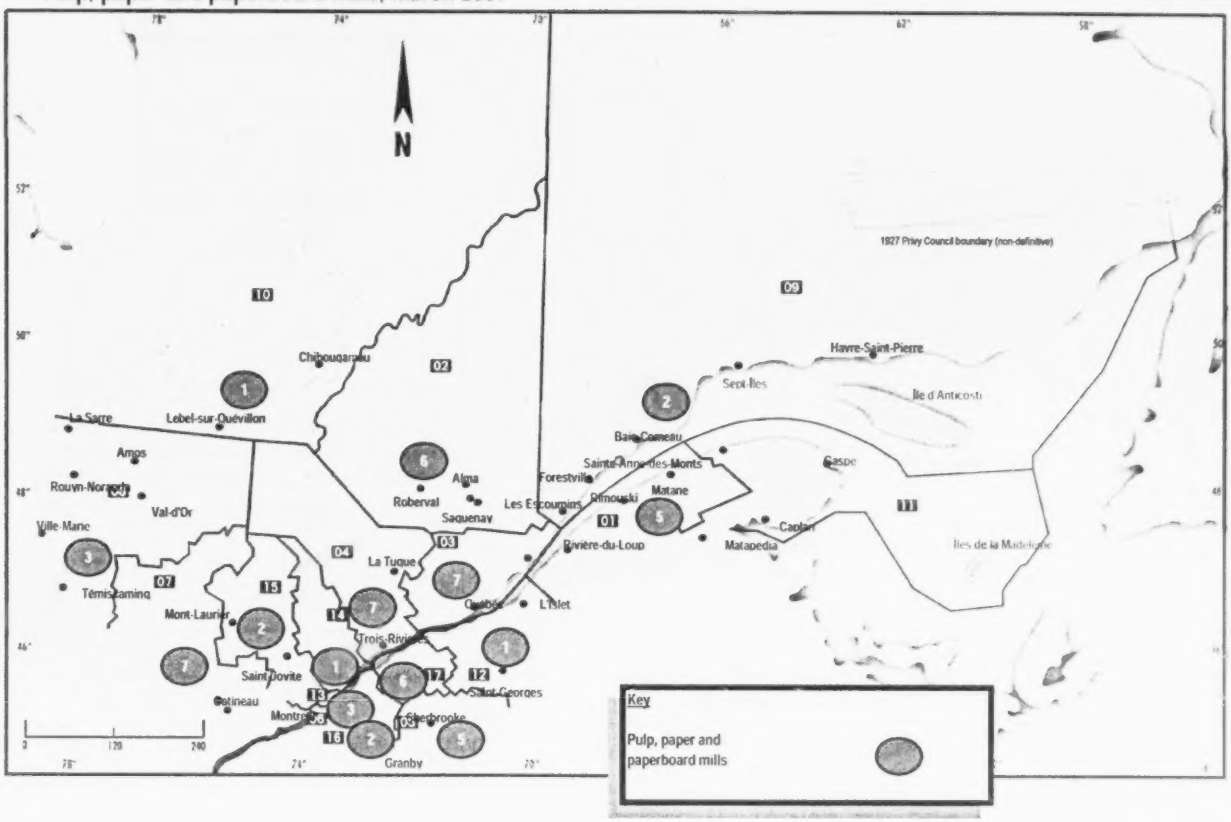
Source : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (Forestry Register).

# 11 The pulp and paper industry

## Production capacity

### Pulp, paper and paperboard mills, March 2007[1]

11.01.01 (2)




1. There are no pulp and paper mills in the regions of Gaspesie-Iles-de-la-Madeleine (11) and Laval (13).

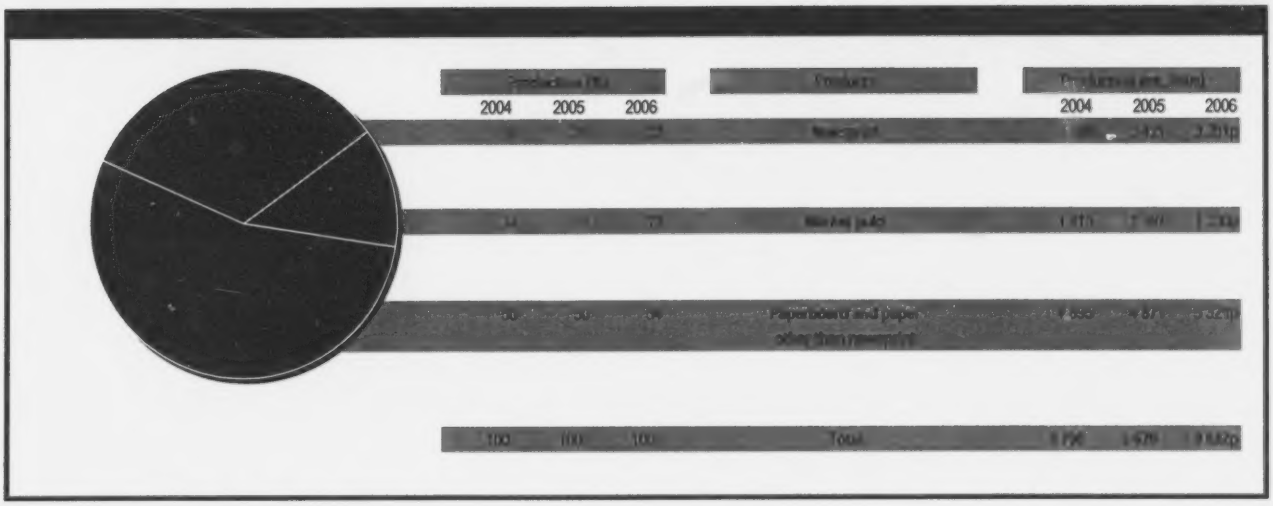
Source : Ministere des Ressources naturelles et de la Faune, Direction du developpement de l'industrie des produits forestiers, Forestry Register.

# 11 The pulp and paper industry

## Production

### Breakdown of production by product

11.02.05




Source : Québec's Forest Industry Council (QFIC).

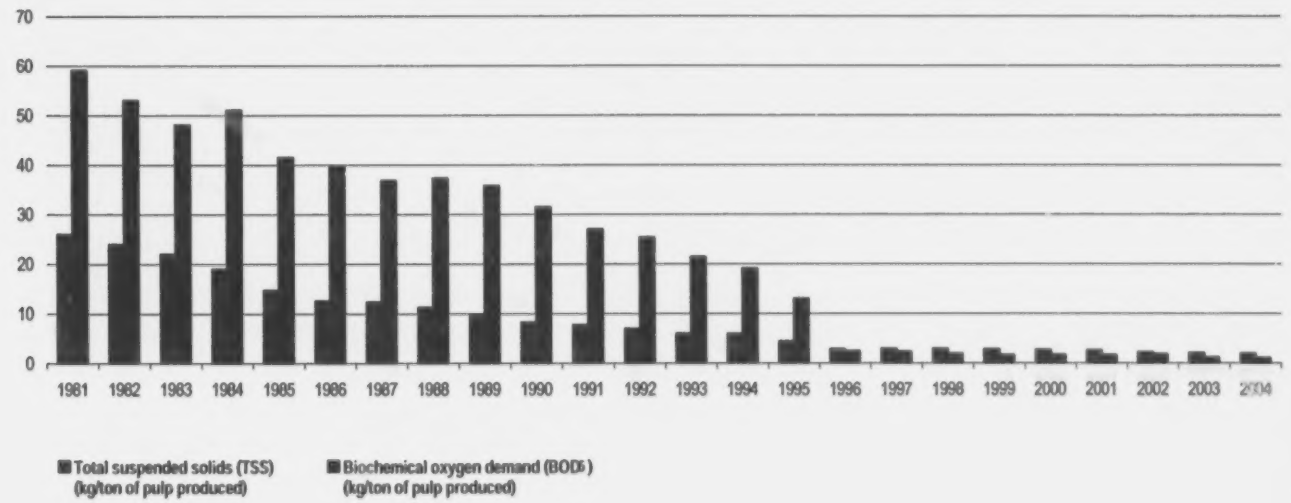
## 11 The pulp and paper industry

### Environment

### Trends in the quality of effluents from Québec's pulp and paper mills

(kg/ton of pulp produced)

11 06 02




Source : Ministère du Développement durable, de l'Environnement et des Parcs.

# 11 The pulp and paper industry

## Production

### Breakdown of production by product

11.02.05

| Production (%) | | | Products | Production (mt, 000s) | | |
|---|---|---|---|---|---|---|
| 2004 | 2005 | 2006 | | 2004 | 2005 | 2006 |
| 36 | 35 | 33 | Newsprint | 3 488 | 3 421 | 3 281p |
| 14 | 14 | 13 | Market pulp | 1 415 | 1 387 | 1 230p |
| 50 | 50 | 54 | Paperboard and paper other than newsprint | 4 895 | 4 871 | 5 321p |
| 100 | 100 | 100 | Total | 9 798 | 9 679 | 9 832p |

Source : Quebec's Forest Industry Council (QFIC)

# 11 The pulp and paper industry

## Environment

### Trends in the quality of effluents from Québec's pulp and paper mills

(kg/ton of pulp produced)

11.06.02

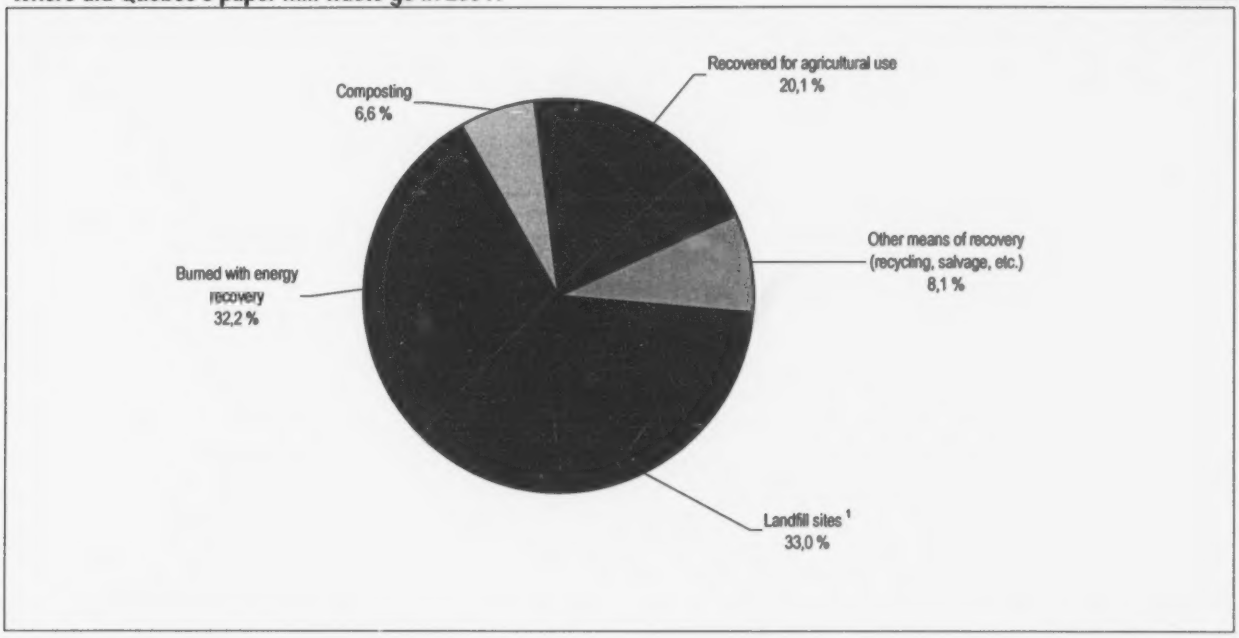
Source : Ministère du Développement durable, de l'Environnement et des Parcs

# 11 The pulp and paper industry

## Environment (cont'd)

### Where did Québec's paper mill waste go in 2004?

11.06.05




1. Including sites set aside for production waste or solid waste landfill sites.

**Source :** Ministère du Développement durable, de l'Environnement et des Parcs.

# 12 The forest sector in Québec's economy

## Highlights

### Economic indicators for Québec's forest products industry in 2004

12.00.01

| | Total jobs (no.) | Total salaries and wages ($, 000s) | Value of shipments and other revenue ($, 000s) | Value added [1] to total activity ($, 000s) |
|---|---|---|---|---|
| Forestry and logging (NAICS 113) | 12 747 | 423 391 | 2 889 758 | 1 302 709 |
| Wood product manufacturing (NAICS 321) | 37 473 | 1 412 298 | 9 758 118 | 4 091 534 |
| Paper manufacturing (NAICS 322) | 27 658 | 1 559 063 | 10 764 347 | 4 317 907 |
| **Total (forest sector)** | **77 878** | **3 394 753** | **23 412 221** | **9 712 150** |
| Overall manufacturing activity in Québec | 475 440 | 20 471 465 | 142 675 148 | 64 039 341 |

1. The value added to total activity has been estimated according to the following calculation : (Manufactured goods revenue + Total closing stocks – Total opening stocks – Energy and water supply costs – Supplies and material costs).

Sources : Statistics Canada (According to the annual report on logging and manufacturing of 2004) and Institut de la statistique du Québec.

### Economic importance of Québec's forest product exports [1] ($, million)

| | 2005 | 2006 |
|---|---|---|
| Raw wood, sawn wood and lumber | 4 355,7 | 3 712,5 |
| Pulp, paper and paperboard | 7 380,7 | 7 494,6 |
| **Total (forest sector)** | **11 736,5** | **11 207,1** |

1. Based on customs data, according to the Standard Classification of Goods (SCG).

### Québec's balance of trade [1] in the forest products sector and for all products [2] in 2006 ($, million)

| | Imports | Exports | Balance of trade |
|---|---|---|---|
| Wood, wood charcoal and wood products | 981,8 | 3 639,9 | 2 658,3 |
| Pulp, paper and paperboard | 1 176,7 | 7 495,0 | 6 318,3 |
| **Total (forest products sector)** | **2 158,3** | **11 134,9** | **8 976,6** |
| All products | 80 743,0 | 73 330,0 | -7 413,0 |

1. Balance of trade of commercial goods with international destinations.
2. Product descriptors consistent with the Harmonized Commodity Description and Coding System (World Customs Organization)

Source : Institut de la statistique du Québec, according to the Standard Classification of Goods.

### Gross domestic product (GDP) [1] at factor cost by economic activity [2] in 2005

| | ($, million) | (% change) |
|---|---|---|
| Forestry and logging (NAICS 113) | 1 524,9 | -4,9 |
| Wood product manufacturing (NAICS 321) | 3 515,8 | -5,7 |
| Paper manufacturing (NAICS 3221 and 3222) | 3 958,9 | -3,1 |
| Economy as a whole | 224 052,7 | 100,0 |

1. GDP by sector of activity measures the added value of each industrial sector, i.e. production value less intermediate consumption value.
2. In chained (1997) dollars.

Source : Statistics Canada

### Québec's balance of trade [1] in the forest products sector and for all products [2] in 2006 ($, million)

| | Imports | Exports | Balance of trade |
|---|---|---|---|
| Wood product manufacturing | 835,9 | 3 548,1 | 2 912,2 |
| Wood pulp, paper and paperboard, converted paper product manufacturing mills | 1 063,0 | 7 385,9 | 6 303,1 |
| **Total (forest products sector)** | **1 898,9** | **10 914,0** | **9 215,3** |
| All products | 80 734,0 | 73 330,0 | -7 413,0 |

1. Balance of trade of commercial goods with international destinations.
2. According to (NAICS)

Source : Institut de la statistique du Québec.

### Value of Québec's shipments, principal forest products ($, million)

| | 2005 | 2006 |
|---|---|---|
| Sawmills | 3 509 | 2 858 |
| Other prefabricated millwork | 1 395 | 1 188 |
| Oriented strand board (OSB) | 397 | 251 |
| Particle board | 660 | 589 |
| Wooden doors and windows | 878 | 846 |
| Wooden boxes and pallets | 148 | 150 |
| Wooden structural products | 329 | 304 |
| Wooden kitchen cabinets | 787 | 747 |
| Wood pulp | 1 061 | 1 074 |
| Newsprint | 3 617 | 3 668 |
| Paperboard | 974 | 968 |
| Paperboard containers | 1 547 | 1 405 |

Source : Institut de la statistique du Québec.

### Financial indicators

| | 2005 | 2006 |
|---|---|---|
| Average exchange rate (C$/US$) | 1,212 | 1,134 |
| Average exchange rate (C$/£) | 2,267 | 2,089 |
| Average exchange rate (C$/€) | 1,509 | 1,424 |
| Average exchange rate (C$/¥) | 0,011 | 0,010 |
| Average discount rate | | |
| • Canada (%) | 2,92 | 4,31 |
| • United Statese (%) | 3,25 | 4,98 |
| Average prime rate | | |
| • Canada (%) | 4,42 | 5,81 |
| • United States (%) | 6,25 | 8,00 |
| Stock market index (paper and forest product market prices, Toronto Exchange) | 11 272,28 | 12 908,39 |

Source : Bank of Canada and http://www.djindexes.com.

### Construction starts in Canada and the United States (no. of units)

| | 2005 | 2006 |
|---|---|---|
| Canada | 225 481 | 227 915 |
| United States | 2 068 000 | 1 800 700 |

Source : Société canadienne d'hypothèques et de logement and US Census Bureau.

# 12 The forest sector in Québec's economy

## Highlights (cont'd)

12.00.01

### Average price of principal forest products

| | 2005 | 2006 |
|---|---|---|
| Softwood lumber, | | |
| Toronto green (composite price) (C$/1 000 bd ft) | 387,9 | 328,3 |
| Softwood lumber, | | |
| Columbus dry (composite price) (C$/1 000 bd ft) | 472,8 | 384,9 |
| Hardwood lumber, | | |
| Montreal exchange (weighted price) (C$/1 000 bd ft) | 658,3 | 552,8 |
| Plywood (12.5 mm) (C$/1 000 sq.ft.) | 485,8 | 459,0 |
| Oriented strand board (OSB) 7/16" (C$/1 000 sq.ft.) | 403,0 | 250,0 |
| Bleached softwood kraft pulp (US$/mt) | 840,0 | 770,0 |
| Bleached hardwood kraft pulp (US$/mt) | 615,0 | 660,0 |
| Newsprint (US$/mt) | 645,0 | 660,0 |

Sources : Pribec, Madison's Canadian Lumber Reporter, Random Lengths Publications, RISI, inc.

### Estimated revenue from wood chips in Québec (C$/1 000 bd ft) [1]

| 2005 | 2006 |
|---|---|
| 127,0 | 124,0 |

1. Estimated revenue for every 1 000 bd ft produced.
Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

### Profits made by Canada's forest products industry

| | 2005 | 2006 |
|---|---|---|
| Profits ($, million) | 375 | 649 |
| Profits/sales (%) | 2,0 | 3,3 |

Source : Statistics Canada : 61-008.

### Share of paper mill-integrated sawmills in authorized roundwood consumption

| | |
|---|---|
| 1987 | 28,1 % of total consumption |
| 2005 | 50,5 % of total consumption |

Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

### Budget allocated to the secteur des forêts and the secteur des services régionaux, MRNF [1], 2005-2006 [2] ($, 000s)

| | |
|---|---|
| Research and development | 15 678,9 |
| Forestry policies and programs | 98 709,1 |
| Forest management planning and monitoring | 102 085,1 |
| Seedling production | 46 113,4 |
| Internal management and support | 900,0 |
| Forestry loans | 500,0 |
| Total | 264 984,5 |

1. Ministère des Ressources naturelles et de la Faune.
2. Including Forestry Fund (financed jointly by the MRNF and the industry) : forestry research, forest surveys, seedling production, planning and control.
Source : Ministère des Ressources naturelles et de la Faune, Direction des ressources financières (internal compilation).

# 12 The forest sector in Québec's economy

## Highlights

12.00.01 (2)

### Economic indicators for Québec's forest products industry in 2004 (including furniture and printing)

| | Total jobs (no.) | Total salaries and wages ($, 000s) | Value of shipments and other revenue ($, 000s) | Value added [1] to total activity ($, 000s) |
|---|---|---|---|---|
| Forestry and logging (NAICS 113) | 12 747 | 423 391 | 2 889 756 | 1 302 709 |
| Wood product manufacturing (NAICS 321) | 37 473 | 1 412 299 | 9 758 118 | 4 091 534 |
| Furniture and related product manufacturing (NAICS 337) | 29 811 | 974 926 | 3 846 467 | 2 184 431 |
| Paper manufacturing (NAICS 322) | 27 658 | 1 559 063 | 10 764 347 | 4 317 907 |
| Printing and related support activities (NAICS 323) | 18 438 | 809 135 | 3 132 757 | 1 747 485 |
| **Total (forest sector)** | 126 127 | 5 178 814 | 30 391 445 | 13 624 066 |
| Overall manufacturing activity in Québec | 475 440 | 20 471 465 | 142 675 148 | 64 039 341 |

1. The value added to total activity has been estimated according to the following calculation : (Manufactured goods revenue + Total closing stocks – Total opening stocks – Energy and water supply costs – Supplies and material costs).

Sources : Statistics Canada (According to the annual report on logging and manufacturing of 2004) and Institut de la statistique du Québec

### Economic importance of Québec's forest product exports (including furniture and printing) [1] ($, million)

| | 2005 | 2006 |
|---|---|---|
| Forestry and logging (NAICS 113) | 10,3 | 8,3 |
| Wood product manufacturing (NAICS 321) | 4 201,3 | 3 548,1 |
| Furniture and related product manufacturing (NAICS 337) | 1 516,0 | 1 368,9 |
| Paper manufacturing (NAICS 3221 and 3222) | 7 282,4 | 7 366,1 |
| Printing and related support activities (NAICS 323) | 569,3 | 502,0 |
| **Total (forest sector)** | 13 579,4 | 12 793,4 |

1. According to NAICS.

Source : Statistics Canada (Strategis).

### Gross domestic product (GDP) [1] at factor cost by economic activity in 2005 [2] (including furniture and printing)

| | ($, million) | (% change) |
|---|---|---|
| Forestry and logging (NAICS 113) | 1 524,9 | -4,9 |
| Wood product manufacturing (NAICS 321) | 3 515,8 | -5,7 |
| Furniture and related product manufacturing (NAICS 337) | 1 557,2 | 0,4 |
| Paper manufacturing (NAICS 3221 and 3222) | 4 058,9 | -3,1 |
| Printing and related support activities (NAICS 323) | 1 457,7 | -0,7 |
| Economy as a whole | 224 052,7 | 100,0 |

1. GDP by sector of activity measures the added value of each industrial sector, i.e. production value less intermediate consumption value.
2. In chained (1997) dollars.

Source : Statistics Canada.

### Value of Québec's shipments, principal forest products (including furniture and printing) [1] ($, million)

| | 2005 | 2006 |
|---|---|---|
| Sawmills | 3 509 | 2 858 |
| Other prefabricated millwork | 1 395 | 1 166 |
| Oriented strand board (OSB) | 397 | 251 |
| Particle board | 660 | 569 |
| Wooden doors and windows | 678 | 646 |
| Wooden boxes and pallets | 148 | 150 |
| Wooden structural products | 329 | 304 |
| Wooden kitchen cabinets | 787 | 747 |
| Furniture | 3 785 | 3 530 |
| Wood pulp | 1 061 | 1 074 |
| Newsprint | 3 817 | 3 668 |
| Paperboard | 974 | 968 |
| Cardboard containers | 1 547 | 1 495 |
| Printing | 3 518 | 3 181 |

Source : Institut de la statistique du Québec.

### Construction starts in Canada and the United States (no. of units)

| | 2005 | 2006 |
|---|---|---|
| Canada | 225 481 | 227 915 |
| United States | 2 068 000 | 1 800 700 |

Sources : Société canadienne d'hypothèques et de logement and US Census Bureau.

### Québec's balance of trade [1] in the forest products sector and for all products [2] in 2006 (including furniture and printing) ($, million)

| | Imports | Exports | Balance of trade |
|---|---|---|---|
| Wood product, furniture and related product manufacturing | 1 379,0 | 4 917,0 | 3 538,0 |
| Wood pulp, paper and paperboard, converted paper product manufacturing and printing and related support activities mills | 1 208,7 | 7 867,9 | 6 659,4 |
| **Total (forest products sector)** | 2 587,7 | 12 784,9 | 10 197,4 |
| All products | 80 743,0 | 73 330,0 | -7 413,0 |

1. Balance of trade of commercial goods with international destinations.
2. According to NAICS.

Source : Institut de la statistique du Québec.

### Financial indicators

| | 2005 | 2006 |
|---|---|---|
| Average exchange rate (C$/US$) | 1,212 | 1,134 |
| Average exchange rate (C$/£) | 2,207 | 2,089 |
| Average exchange rate (C$/€) | 1,509 | 1,424 |
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| Average discount rate | | |
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| • United States (%) | 3,25 | 4,98 |
| Average prime rate | | |
| • Canada (%) | 4,42 | 5,81 |
| • United States (%) | 6,25 | 8,00 |
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Source : Bank du Canada and http://www.djindexes.com.

# 12 The forest sector in Québec's economy

## Highlights (cont'd)

12.00.01 (2)

### Average price of principal forest products

| | 2005 | 2006 |
|---|---|---|
| Softwood lumber, Toronto green (composite price) (C$/1 000 bd ft) | 387,9 | 328,3 |
| Softwood lumber, Columbus dry (composite price) (C$/1 000 bd ft) | 472,8 | 384,9 |
| Hardwood lumber, Montreal exchange (weighted price) (C$/1 000 bd ft) | 659,3 | 552,6 |
| Plywood (12.5 mm) (C$/1 000 sq.ft.) | 485,8 | 450,0 |
| Oriented strand board (OSB) 7/16" (C$/1 000 sq.ft.) | 403,0 | 250,0 |
| Bleached softwood kraft pulp (US$/mt) | 840,0 | 770,0 |
| Bleached hardwood kraft pulp (US$/mt) | 815,0 | 690,0 |
| Newsprint (US$/mt) | 845,0 | 660,0 |

Sources : Pribec, Madison's Canadian Lumber Reporter, Random Lengths Publications, RISI, Inc.

### Estimated revenue from wood chips in Québec (C$/1 000 bd ft) [1]

| 2005 | 2006 |
|---|---|
| 127,0 | 124,0 |

1. Estimated revenue for every 1 000 bd ft produced.
Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

### Profits made by Canada's forest products industry

| | 2005 | 2006 |
|---|---|---|
| Profits ($, million) | 375 | 640 |
| Profits/sales (%) | 2,0 | 3,3 |

Source : Statistics Canada : 61-008.

### Share of paper mill-integrated sawmills in authorized roundwood consumption

| | |
|---|---|
| 1987 | 28,1 % of total consumption |
| 2005 | 50,5 % of total consumption |

Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

### Budget allocated to the secteur des forêts and the secteur des services régionaux, MRNF [1], 2005-2006 [2] ($, 000s)

| | |
|---|---|
| Research and development | 15 676,9 |
| Forestry policies and programs | 99 709,1 |
| Forest management planning and monitoring | 102 065,1 |
| Seedling production | 46 113,4 |
| Internal management and support | 900,0 |
| Forestry loans | 500,0 |
| Total | 264 964,5 |

1. Ministère des Ressources naturelles et de la Faune.
2. Including Forestry Fund (financed jointly by the MRNF and the industry) : forestry research, forest surveys, seedling production, planning and control.
Source : Ministère des Ressources naturelles et de la Faune, Direction des ressources financières (internal compilation).

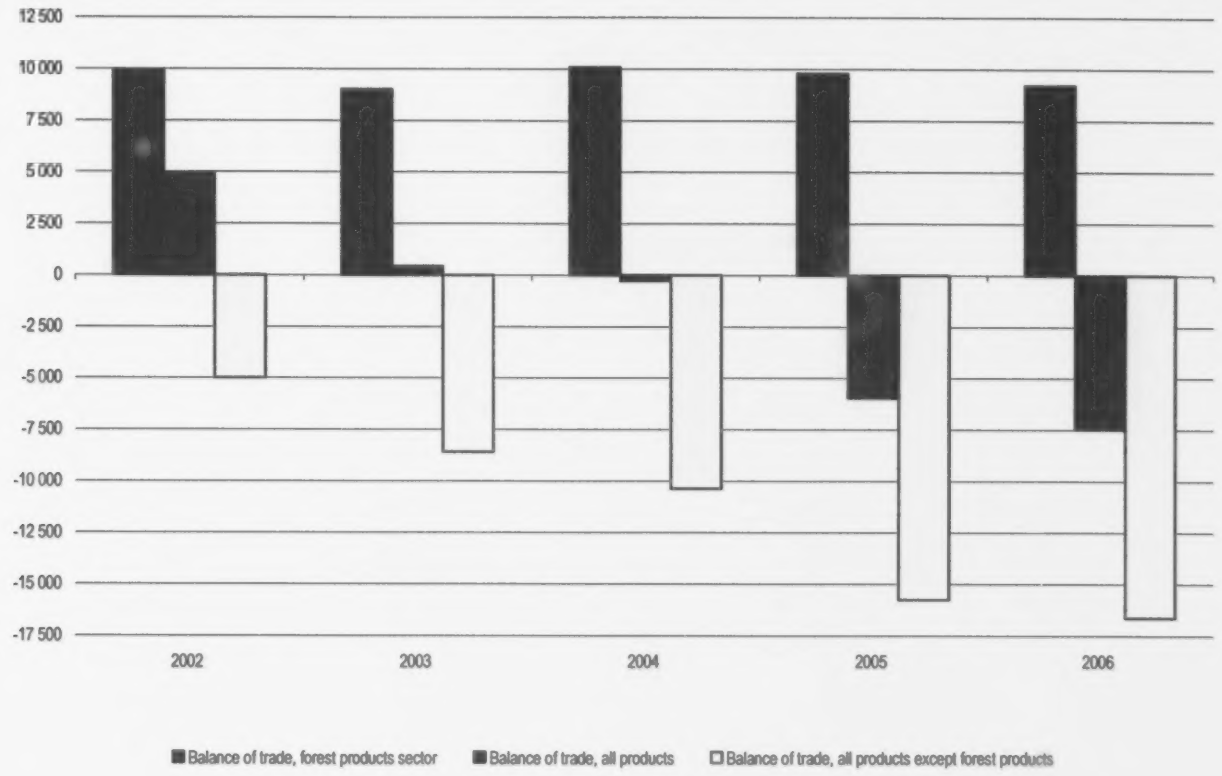
# 12 The forest sector in Québec's economy

## Economic and financial indicators

### Economic indicators for the forest sector

**Québec's balance of trade [1] in the forest products sector and for all products [2]**
**($, million)**

12 01 13




1. Balance of trade of commercial goods with international destinations.
2. According to the North American Industry Classification System (NAICS)

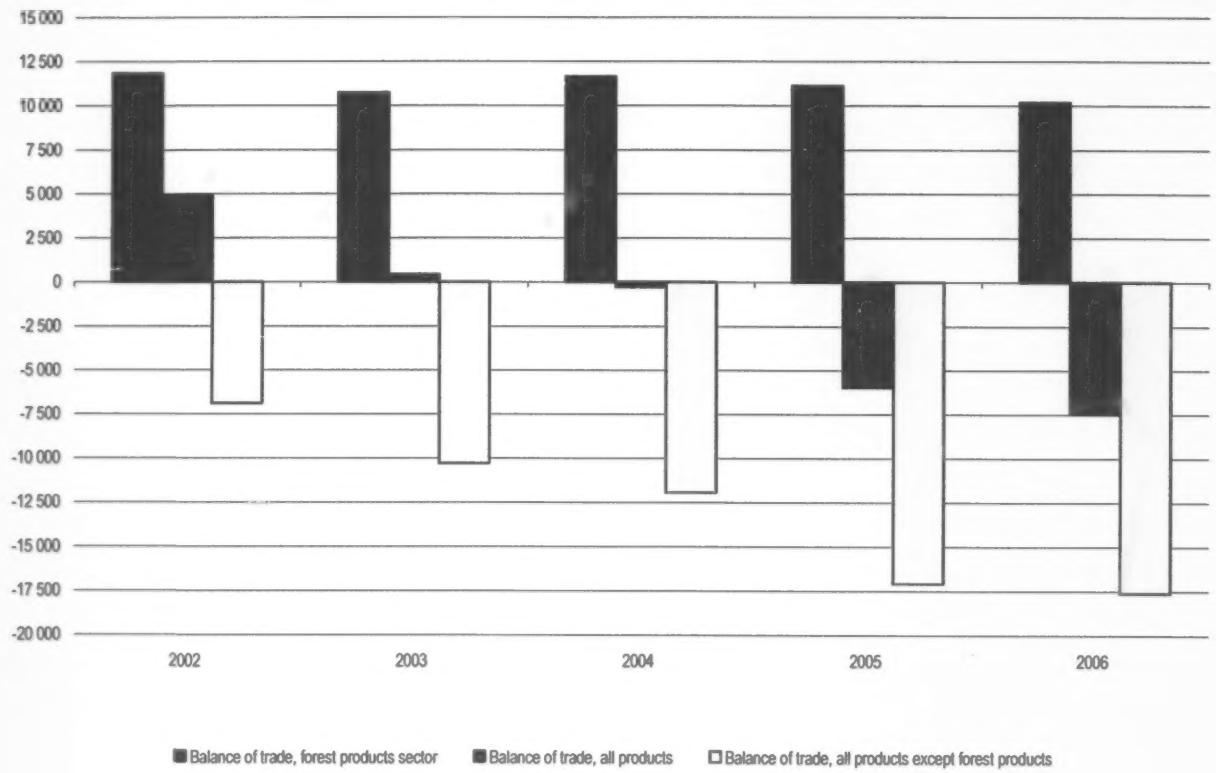
**Source :** Institut de la statistique du Québec.

## Economic and financial indicators (cont'd)

### Economic indicators for the forest sector (cont'd)

**Québec's balance of trade [1] in the forest products sector** (including furniture and printing) **and for all products [2]**
**($, million)**

12.01.13 (2)




1. Balance of trade of commercial goods with international destinations.
2. According to the North American Industry Classification System (NAICS)

**Source :** Institut de la statistique du Québec.

# 12 The forest sector in Québec's economy

## Economic and financial indicators (cont'd)

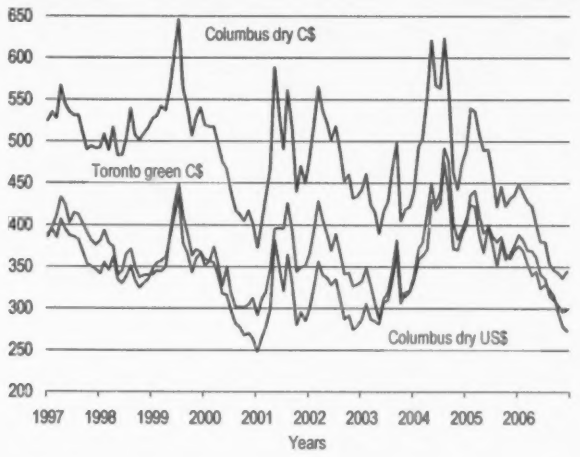
## Economic indicators for the forest sector (cont'd)

### Price trends

#### 1) Softwood lumber (composit price)

($/1000 bd ft)

12.01.38

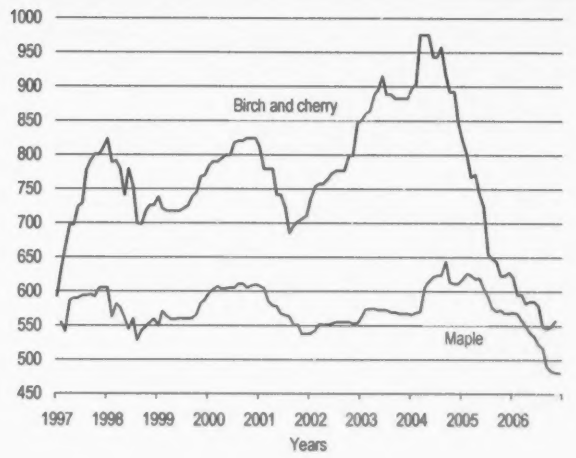



Source : Pribec.

#### 2) Hardwood lumber (weighted price) [1]

(C$/1 000 bd ft)

12.01.39



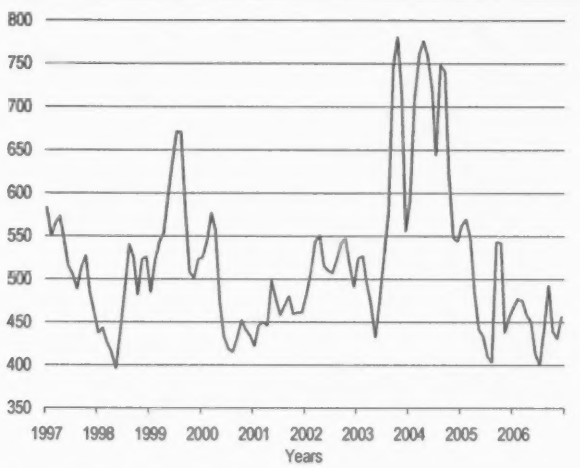

1. 4/4 raw, F.O.B. mill.

Source : Pribec.

#### 3) Plywood (12.5 mm)

(C$/1000 sq.ft.)

12.01.40

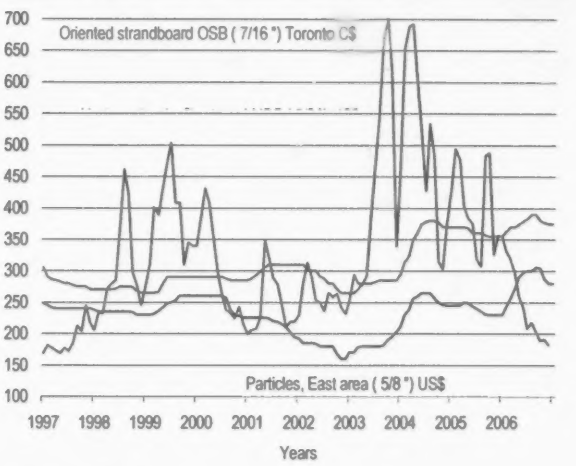



Source : Madison's Canadian Lumber Reporter.

#### 4) Board

($/1 000 sq.ft.)

12.01.41

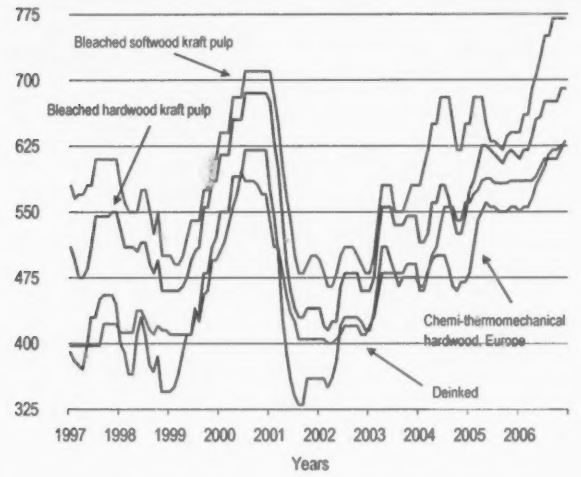



Source : Random Lengths.

## Price trends (cont'd)

### 5) Market pulp

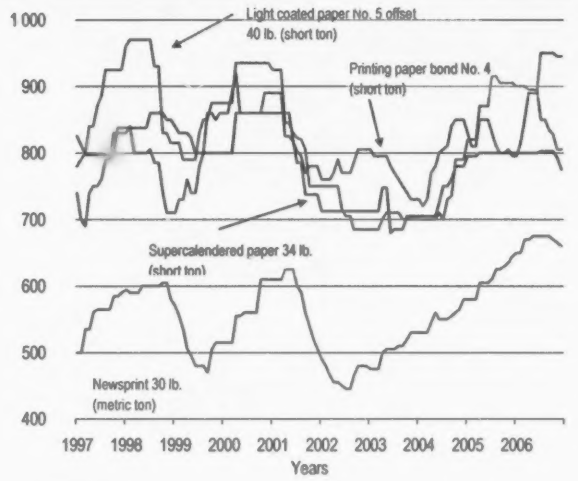
(US$/mt) 12.01.42




Source : RISI, Inc.

### 6) Paper

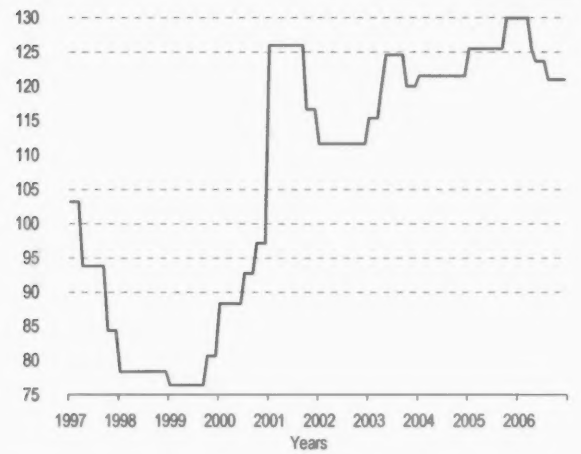
(US$) 12.01.43




Source : RISI, Inc.

### 7) Revenue from Chips [1]

(C$/1 000 bd ft) 12.01.44

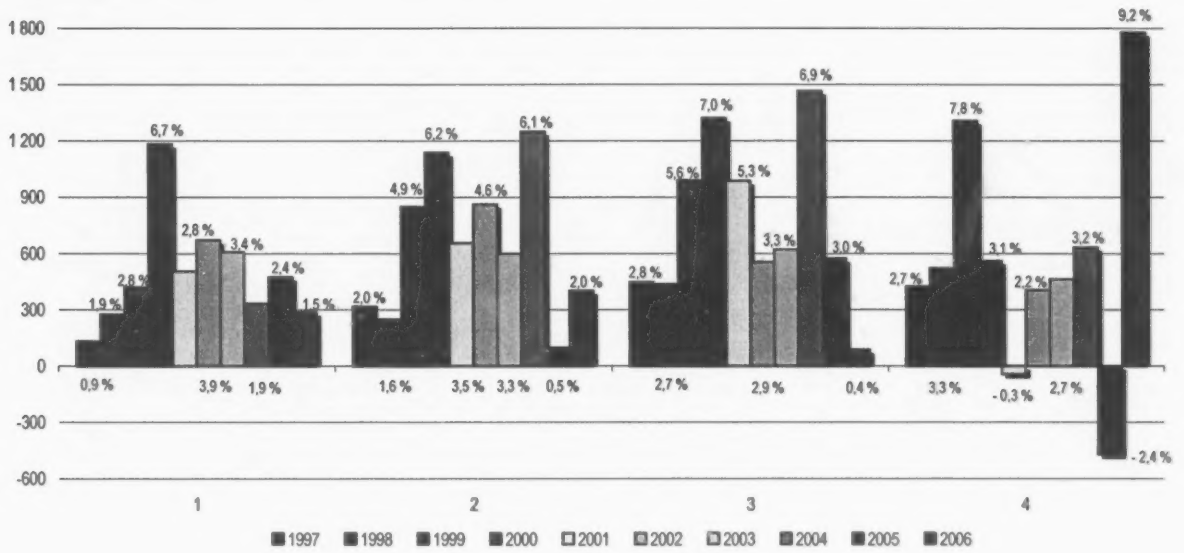



1. The calculation takes into account chip production per 1 000 bd ft.
Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

**Wood and paper (Canada)**

Quarterly profits ($, million) and profits before extraordinary items/sales (%)

12 01 45




Source : Statistics Canada : 61-008.

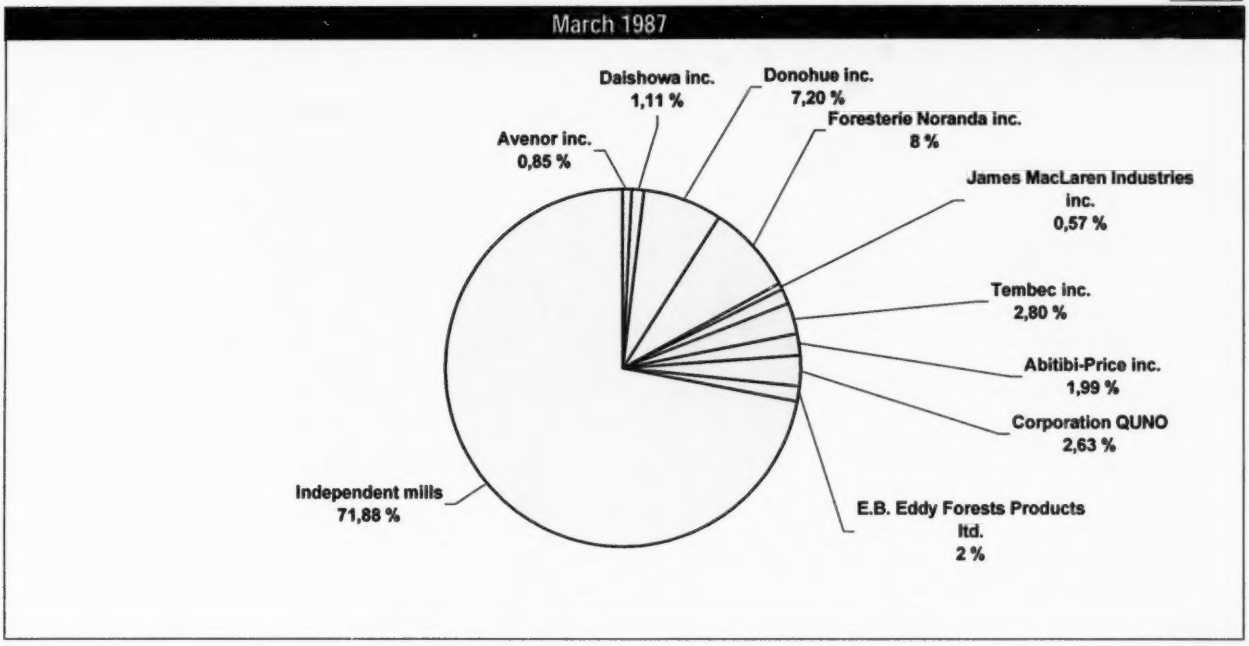
# 12 The forest sector in Québec's economy

## Economic and financial indicators (cont'd)

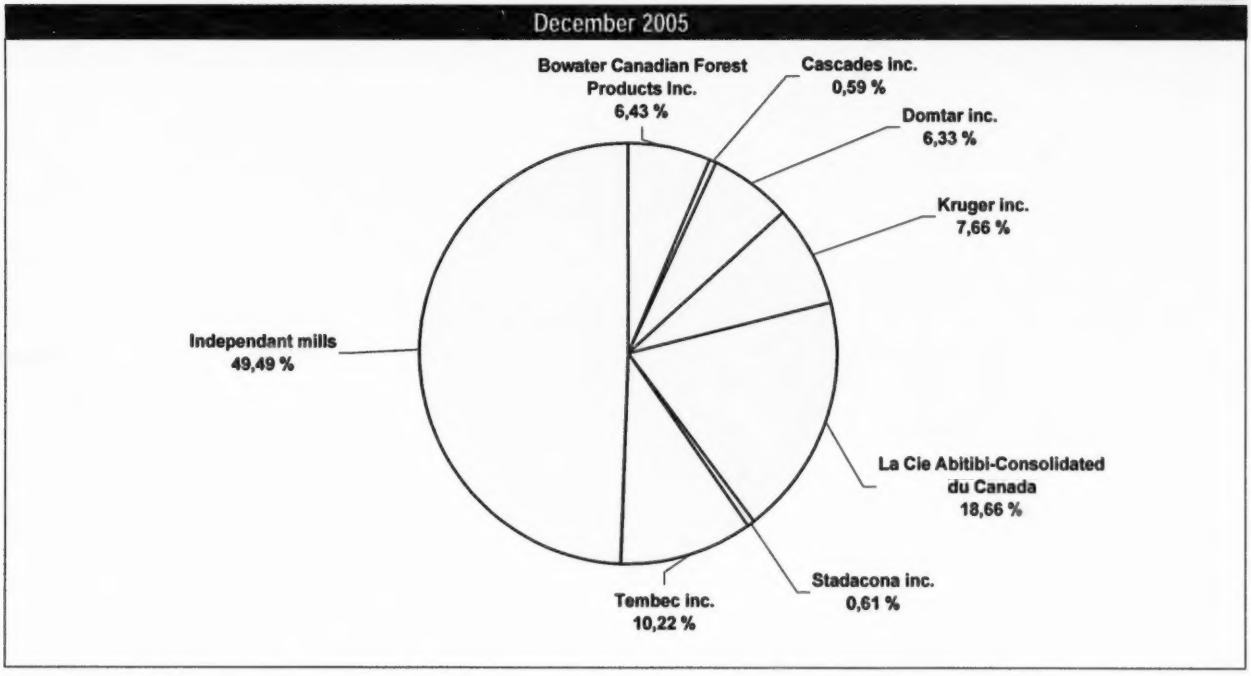
## Economic indicators for the forest sector (cont'd)

### Share of paper mill-integrated sawmills in Québec's authorized roundwood consumption (%)

12.01.48




12.01.49




**Source :** Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (internal compilation).